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THE VOICE OF COLORADO SCHOOL OF MINES, A SUPERIOR EDUCATION IN APPLIED SCIENCE AND ENGINEERING

Mines Freshman Takes His Life

Faisal G. Hashem

There were probably indicators of his being at risk, according to Mines police chief Richard Boyd. Among these indicators, Jeff Wilcox was giving away personal property. Jeff was 19. An orphan from Pueblo, he recently received the Orphan Foundation of America's 2000 OLIVER Scholarship. "Each year, as we try to pick the 12 students to participate in the OLIVER Project we are struck with the same thought: these kids are all wonderful...12 foster youth who represent the promise and potential of America's foster youth. We think this year's participants are perfect examples of what motivation mixed with opportunity can ac-

complish" Said the Orphan Project web-site. But something went wrong.

CSM freshman Jeff Wilcox, a Computer Science and Math major was found dead by hanging in his Weaver Tower dormitory room early one morning last week.

"Suicide is a reaction to overwhelming feelings of loneliness, worthlessness, helplessness, hopelessness and depression. It occurs when a person's pain exceeds a person's resources and ability to cope. It is the third leading cause of death for people 15 to 24 years of age," said Ron Brummett. He continued, "the hours that followed the suicide of Jeff Wilcox can be easily described like the

ripples in a pond. As Director of CSM's Counseling Services, and a professional with about 25 years of experience, my staff and I are concerned about the impact of a suicide on our students. We are concerned about our students and want to help those that are feeling depressed or hopeless. CSM, as an engineering university, is all about reason, logic, defining the variables and cranking out a solution. Suicide is not reasonable. There are no convenient formulas or software programs to use to arrive at answers. Death, especially suicide, raises feelings of shock, guilt, anger, depression, and denial. It raises painful questions, doubts and fears. Help in dealing

with these feelings is available from many sources both on campus and in the local community."

"Just like objects in the pond, the act of suicide disturbs lives; some more than others; some lives sooner; some later. There are lives, like parents, who are disturbed by suicide because their

children are affected. Suicide is a powerful result of a person feeling completely powerless. Suicide is preventable. Grieving is hard work and should never be done alone" said Brummett.

Services will be held Thursday at 10, at the Lewis and Glenn Funeral Home in Salida, 719-539-3839.

Suicide

A stone cast into a pond.

Ripples form and drift outward.

Bumping into rocks, branches, and trees as they move.

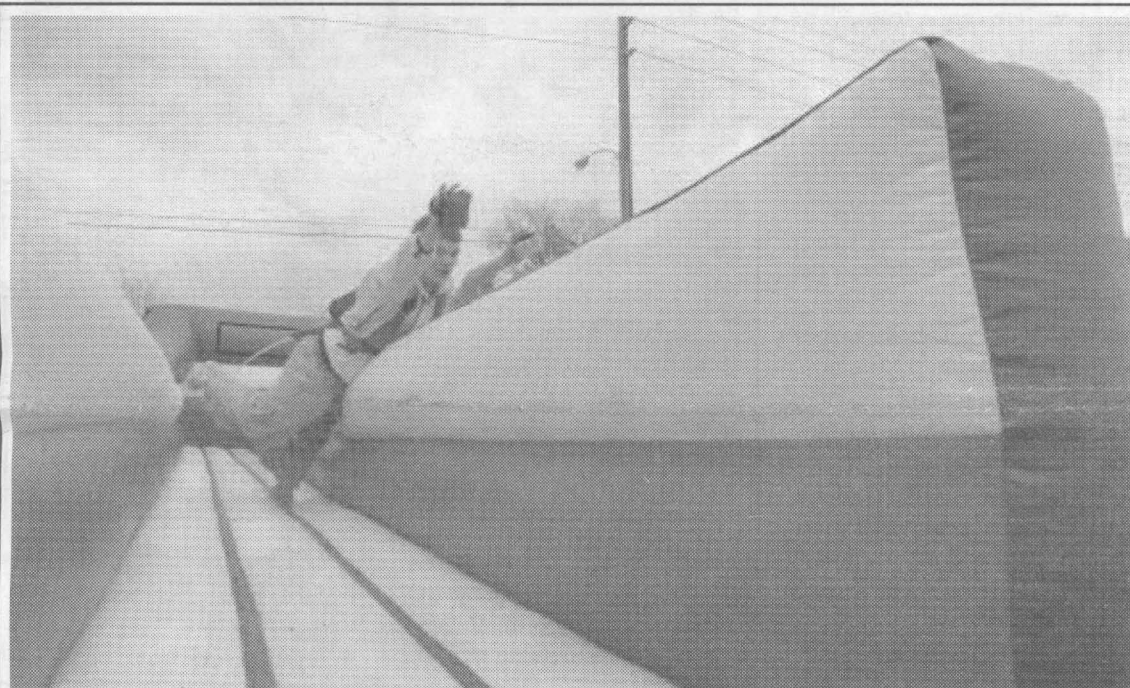
Small leaves are carried by the waves.

Branches sway and bend.

Other objects appear unaffected.

Later, ringlets methodically wash into the distant shore.

—Ron Brummett



Reach for the end! The Bungee Run was a popular event at the IM fields during E-days.

Photo by Douglas Baldwin

CSM Goes to Abu Dhabi

Faisal G. Hashem (Source: Leah McNeill, OPA)

By decree of His Highness Sheikh Zayed Bin Sultan Al Nahayan, President of the United Arab Emirates, and by the direction of His Highness Sheikh Khalifa Bin Zayed Al Nahayan, Crown Prince of Abu Dhabi and chairman of the Supreme Petroleum Council, is born The Petroleum Institute of Abu Dhabi. The institute will bring together academia and industry to create a world class center in the fields of engineering, applied science, and research. Leading the project, the Colorado School of Mines was

selected over a number of prestigious universities.

Newly committed partners along with the Abu Dhabi National Oil Company (ADNOC) in this venture are BP, JODCO, Shell Oil, and TotalFinaElf. Mines has already begun its academic roll in terms of program, and curriculum design for providing accreditation. The five initial undergraduate programs, Chemical, Petroleum and Mechanical Engineering, Instrumentation and control Engineering, and Petroleum Geoscience Engineering, will begin tak-

ing in students in September 2001. The curriculum will focus on technical excellence while also preparing the students for complex business and professional challenges.

"Founded in 1874, CSM is a world renowned public U.S. Research University devoted to the highest standards of engineering education and applied science, and has a special focus on energy and natural resource technology. The Petroleum Institute will provide an opportunity for the young generation to follow programs of the highest international standard

while maintaining their cultural and social links at home." (LM)

After establishing the undergraduate program, a postgraduate program will be created and linked to the applied research and development of the region. Continued education for employees in the petroleum industry will also be offered. "The institute intends to be recognized in the world community as a first class regional center of learning, committed to the stewardship of the Earth and its precious natural resources." (LM) See <http://talus.Mines.EDU/pi/>

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Concrete Canoe and Steel Bridge Teams Make Mines Proud at Regionals

Stephanie Onorofskie

While the majority of the CSM population was partaking in the E-Days festivities, a few Mines students were busy building steel bridges and racing concrete canoes. Because of these students

competition was a surveying activity. The goal of the surveying activity was to find the elevation of the northernmost spire of the USAF Academy Chapel, while fighting the monsoon winds of

them out of the competition.

Saturday was dedicated to the canoe competition. The morning began with still more wind and the display presentation. Each canoe team is required to build a display to show how their canoe was built, the materials used and a cross section of the canoe. The name of the canoe team this year was *Ili Lani*, meaning "heavenly splendor" and the theme for the competition was an island theme. Jason Lancaster, team manager said, "Our display was awesome, one of the best..." Jason also said this seemed to be the general consensus of all of the students at the competition. Unfortunately, the judges did not agree and the display did not place.

That was not the end of the CSM concrete canoe team. The day still had concrete canoe presentations and the races in store for everyone. Most of the presentations were very technical and did not catch many of the viewers' interest... until Mines took the stage. Tom Szyrakiewicz, Corey Scheele, and Jason Lancaster did a very different and entertaining presentation that caught the judges' eye as they took first! Congratulations!

The canoe races are the final and most exciting part of the canoe competition because the students get to see their design in action. Fortunately, by the time lunch rolled around, the wind died down and Saturday turned into a beautiful day for canoe races. Traditionally, South Dakota School of Mines, who, by the way, sings our school song incorrectly, shows up with the best looking canoe. This year Mines gave everybody a scare. Jason Lancaster said, "I cannot describe the looks of envy and worry on the faces of all of our competitors when we showed our canoe out at the lake. Even

South Dakota came over and complemented our work - some of them came over, looked, and walked away without saying a word! I guess we scared 'em." There were even a few tears shed by the South Dakota female paddlers after the races.

There are five races at the competition: men's and women's endurance, men's and women's sprint and the co-ed races. The first race was the men's endurance. Ralph Thomure and Tom Szyrakiewicz competed in this event. They were the first racers to have the canoe in the water and found a big problem with the canoe. After

did not have to spend time bailing. Thanks Tom and Ralph and great job Jenn and Lauren!

Next was the men's sprint. This year's canoe has great straight line speed, but is a little tough to turn. Racers Ralph and Tom ran into this problem. While they blazed through the straight section of the sprint, the turn was tough to maneuver but still took second. Pretty impressive!

Racers Joanna Szyrakiewicz and Jenn Schmidt knew the turn was going to be difficult and were able to maneuver their way down and around to win second. Great job ladies!



The CSM steel bridge team with their assembled bridge at regionals, which were held at the Air Force Academy.

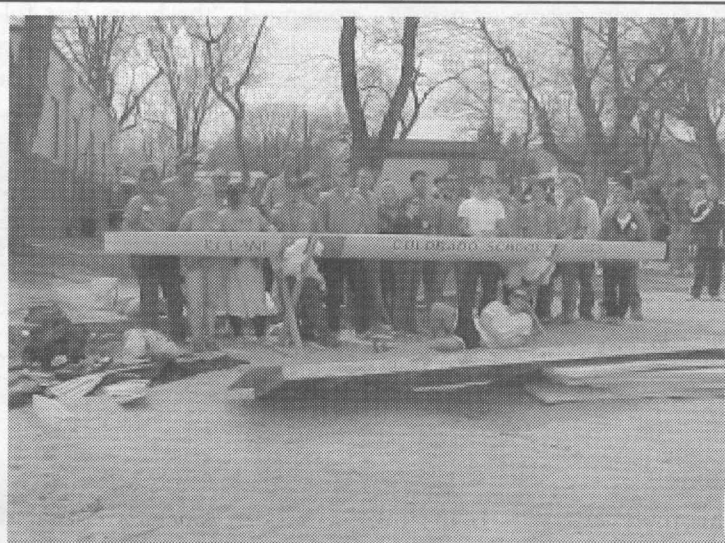
and their dedicated advisers, CSM was represented very well this year at the Annual ASCE Regional Competition at the Air Force Academy in Colorado Springs. The concrete canoe team placed second overall, only 14 points behind South Dakota School of Mines. Unfortunately, the Steel Bridge team was disqualified due to excessive deflection in the bridge; however, they did have one of the fastest assembly times.

The competition began Friday, April 6 with the technical and non-technical paper presentations, a mystery design competition, a pre-design competition, and the steel bridge competition. Senior Corey Scheele won second in the non-technical competition while Jason Lancaster, also a senior, won third in the technical competition.

The mystery design competition was a challenging "ropes" course that the Air Force uses to train cadets, while the pre-design

Colorado Springs. CSM's competent, and windproof, survey team consisting of seniors Ben Liu, Luke Stumme and Stephanie Onorofskie placed sixth out of eight in this event.

The final event of Friday was the steel bridge competition. The wind in the Springs was ruthless and only allowed two schools to assemble their bridges outside. BYU and CSM were the two schools. Mines' team consisted of six seniors: Julie West, Patrick Hill, Kainoa Aki, Conner Feeney, Chris Widmer, and Robinson Usagani. The rest of the competition was forced into a garage to be viewed by several snowplows. The bridge competition is judged on several things. Three of the most important are assembly time, weight of the bridge, and deflection of the loaded bridge. While CSM had one of the fastest assembly times at 6:47 minutes, the large deflection of the bridge took



The CSM concrete canoe team at the regional competition with their canoe, 'Ili Lani'.

making it through the slalom portion of the endurance course they began to take on too much water because it was splashing over the front. This caused them to stop and bail the canoe with their paddles to prevent it from sinking. They finished the race and took sixth. Nice save!

After a quick modification to the canoe, the women's endurance was next. Mines racers Jenn Schmidt and Lauren Bock took first. They were thankful that they

The last race of the day was the co-ed race. We were not sure how the canoe would handle four people after we had had problems with it taking in water earlier in the day. This event had everybody on the Mines team on edge and was very exciting. It came to be that there was nothing to worry about. Racers Pheobe Mitchell, Amy Sirois, Matthias Ziemi and Ben Liu won second in this event! Congratulations!

Senior Class Pizza Party

Come Celebrate Dead Day

on April 26th
from 6:30 to 9 p.m.

Student Center, Food Court



Free Pizza & Beverages

Sponsored by the Senior Class
and the Alumni Association

More Perverts Near Mines

Kim Good

In a move calculated to catch the public unaware, Jefferson County has announced plans to build a treatment center for juvenile sex offenders near Golden. The proposed building site is on county-owned land east of Colorado 93 and south of West 56th Street, a 25-minute walk from the CSM campus, and a 10-minute walk from Mitchell Elementary School. If the paper work goes through, the current deadline for opening the center is February 2002.

The facility would house and treat male sexual offenders between the ages of 10 and 18 in a "cottage" like setting. The proposed site would consist of four cottages each housing 10

to 12 youths. There would also be a treatment center to provide private counseling and education, as well as additional staff.

Before Jefferson County begins building the treatment facility, it must first obtain a special-use permit. These permits are the result of a zoning law the county passed in 1999 that prohibits housing more than one juvenile sex offender in homes in residential neighborhoods without the permits. As of now, juvenile sex offenders are housed in group homes in residential neighborhoods in unincorporated Jefferson County. The new zoning law was designed to phase out that system.

Jefferson County now must

provide a treatment facility before the zoning law goes into effect. Originally the county was considering building the facility near Pine, Colo., but trouble with local opposition led them to give up that site. Possibly because of this experience, the county waited as long as possible to announce the proposed site near Golden. Golden officials are understandably upset at being blindsided by the announcement. A town meeting was held April 10th at the Jefferson County Courthouse for people to voice their concerns. The County Administrator says that the city's concerns will be listened to, but the County Commissioners will make the decision.

Crime At Mines

Gina Gassman

Burglaries on Campus

Two computers and a printer were stolen from the Sports Information Office on April 2.

Traffic Violations

In the past two weeks there have been two reported cases of people running red lights; both occurred at the intersection of 6th Ave. and 19th St.

Mishaps at Mines

Two cars, parked in the upper lot at Mines Park, were tampered with. Between the two cars, there were five flat tires. The culprit apparently let the air out of the tires through the valve stems, as there was no damage to any of the tires.

While participating in the Pipe Run event at E-days, a student fell and injured his back.

A vehicle rolled into another car after its parking brake was not engaged. The left front bumper of the car hit the right side door of the other car.

Two students drove over

the grass in the parking lot at Weaver Towers.

On April 6, the fire alarm at the Sigma Alpha Epsilon house was set off. The apparent cause for the tripped alarm was the DJ's smoke machine.

One car had its windshield smashed in.

Under-Aged Drinking

Over E-Days weekend, there were 14 cases of under-age consumption involving over 25 students. Along with the under-aged drinking, there were reports of illegal drug possession, indecent exposure of two female students and one male student, one case where a student had to be taken to detox, and several open container violations.

Caught in the Act!

Two students were caught tampering with the propane tanks on the west side of the student center. No damage was done to the tanks.

Rotary Scholarships To Come

One of the largest and most prestigious scholarship programs in the world will be accepting applications this spring. The program is the Ambassadorial Scholarship program of the Rotary Foundation, which funds academic studies abroad. In the Denver metro area, one Ambassadorial Scholarship and one Temple Buell Endowed Scholarship (for the study of architecture) are available, for the 2002-2003 academic school year.

Potential applicants are encouraged to investigate the scholarship at an early date. Applicants should contact Joe Meheen of the South East Rotary Club, at 303-337-4040 or Rick Byrne, 303-791-7107, for further information.

The primary purpose of the scholarships is to further international understanding and friendly relations among people of different countries by making it possible for students to study in another country where Rotary clubs are located. Both men and women may apply for the scholarships. Generally, study for 2002-2003 will begin after July 1, 2002.

The scholarships are for one regular academic year (usually nine months) at a study institution as-

signed by the Rotary Foundation Trustees. The 2001-2002 awards will range between US\$13,000 and US\$25,000, depending on actual costs at the assigned study institution. Funding is intended to cover the cost of round-trip transportation, one month of intensive language training (if assigned by Rotary), required academic fees for a normal course load, some educational supplies, reasonable living costs, and limited contingency expenses.

This is the 54th anniversary of the Rotary Foundation Scholarships, the world's largest privately funded international scholarship program. Some 1,200 scholarships of various types will be available from Rotary clubs worldwide this year. They provide for study abroad in one of the 154 countries and 35 geographical regions where Rotary clubs are located.

During studies abroad, Ambassadorial Scholars act as "ambassadors of goodwill." Through their daily contacts with individuals and appearances before groups, they represent their homelands and improve international understanding.

Applicants must have com-

pleted at least two years of university or college course work (or must have a secondary school education and have been employed in a recognized vocation for at least two years) when the scholarship begins. All applicants must be citizens of a country in which there is a Rotary club. Initial application must be made through a local Rotary club in the applicant's legal or permanent residence, or place of full-time study or employment. Persons with disabilities and members of Rotary clubs are eligible and encouraged to apply.

The following persons are ineligible for any Rotary Foundation Ambassadorial Scholarship:

A Rotarian; an Honorary Rotarian; an employee of a club, district, or other Rotary entity or a Rotary International; a spouse, lineal descendant (child or grandchild), a spouse of a lineal descendant, or an ancestor (parent or grandparent) of any living person in the foregoing categories.

Applications must be made through a local Rotary club and generally should be submitted by May 15, 2001. Call Joe Meheen, 303-337-4040, for further information.

Alpha Phi Raises Almost \$1,500 for Foundation

Bernadette DeCianne

"The success of this philanthropy event was from the amount of support given to the

Foundation through an event called the "Alpha Flea Market."

The "Alpha Flea Market" consisted of faculty, staff, Alpha Phi alumni, and other participants who hired a team of Alpha Phis to do spring cleaning projects. Thirty-six Alpha Phis did everything from yardwork to painting offices in the MEP house.

One Alpha Phi, Kristi Dukeminier, was lucky enough to gain a pair of skis and computer while cleaning a basement.

Being new to the Mines cam-

pus, Alpha Phi experimented with this fundraising tactic, setting a goal of \$500. Because of many generous donations, Alpha Phi exceeded its goal, raising \$1,462.08 for the Alpha Phi Foundation.

The priority of the Alpha Phi Foundation is to create awareness that cardiac disease is the #1 killer of women, and to support research programs dealing with this disease. The Foundation also funds educational leadership programs, offers scholarships, assists women in crisis, supports community organizations, and awards outstanding college professors. Alpha Phi chapters across the nation raise nearly \$400,000 for the Foundation every year.

In November, the Alpha Phi Foundation donated \$1,000 to Lutheran Medical Center in Wheat Ridge, Colo. to support their ongoing effort against cardiac disease.

The success of this event could not have been possible without the

contributors and volunteers. A sincere thank you goes out to the volunteers, who worked with the Alpha Phis during this event, and the contributors for participating in this event.

Thank you for your generous donations:

Maureen Silva, Ramona Graves, Kay Godel-Gengenbach, Mary Block, Carol Wiklund, Donna Kline, Minority Engineering Program, Tammy Miller-Davison, Dr. Barbara Olds, Mary Kay Bael, Carol Chapman, Peggy Gorsuch, Heidi Loshbaugh, Dr. Chevron, Dr. Don Macalady and Dr. John Speer.

Just because the event is over doesn't mean you can't make a difference. If you would like to make a donation to the Alpha Phi Foundation, please notify Bernadette DeCianne at bdecian@mines.edu. All checks over \$15 are tax deductible.



Working overtime, Ella Schmidt and Heather Driessner accept a trash bag from Alan Oldes during the Alpha Phi philanthropy event, which raised \$1,500 for the Alpha Phi Foundation.

Alpha Phi Foundation," Alpha Phi Jill Kent commented.

On March 31 and April 1, the Alpha Phis donated their labor to raise money for the Alpha Phi



Admiring the newly painted walls of her office, Judi Diaz-Bonacquist thanked the Alpha Phis for donating 38 hours to paint offices at the Minority Engineering Program's new house.

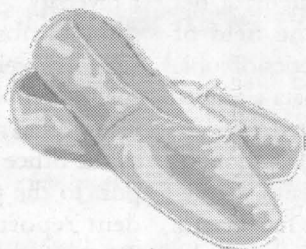
Mines Dance Team Spring Recital

Thursday April 19th

Free Admission

7:30 p.m. in Bunker Auditorium

Jazz, Lyrical, Hip-Hop, and Rock performances



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First Annual Mines Run for the Women

Matt Koenig

On Sunday, April 15, two freshmen from the Mines, Nate Biddle and Matt Koenig, took on an incredible and grueling feat. Instead of lounging around during their Easter holiday like many other college students, they decided to run from Golden to Boulder, an 18-mile trip. It is a city-limit to city-limit course along Highway 93 complete with hills, honking cars, a picturesque view of Rocky Flats, and even occasional vultures circling overhead. The run has been nicknamed, unofficially, the First An-

Instead of running for cancer or AIDS, two CSM freshmen ran for the low gender ratios found on the Mines campus.

nual Mines Run for the Women. Instead of running for cancer or AIDS, these two were running for the low gender ratios found on the Mines campus.

The idea originated from Koenig one day, early on in the semester. When he discussed it with Nate, Biddle thought it was the craziest and possibly dumbest idea he had ever heard, yet still agreed to do it. Many Mines students often asked the two why anyone would ever want to run that far "for fun."

Biddle and Koenig rigorously

trained for the past three months, running up to the "M" running around Golden, and of course on the treadmills, through any type of weather: sun, rain, snow, hail, and even when frost formed on their faces.

Race day came this last Sunday, and both were a little afraid they wouldn't make it. Their weekend training sessions only gave them a good seven miles - nothing like the eighteen they were about to run. At 12:33 p.m., the two took off from the Golden city limit sign with astounding energy and hope that the vultures wouldn't get them. The sun was shining - not a cloud in the sky. They

couldn't have asked for a better day.

The first six miles contain the steep hills and the most difficult part of the run. Pain was all Koenig felt at the top of the second hill. If it wasn't for Biddle's determination and motivation, Koenig says he would never have made it. "The sight of the first checkpoint and our support team, Jordan Dimick and Kara Namanny, waiting for us with water was the greatest thing in the world," Koenig recalled.

The next twelve miles contained mostly flat terrain and the long descent into Boulder. The last mile, however, was arduous for

both runners. Their legs had decided enough was enough and began to shut down. Yet, they still made it, cheering and screaming wildly as they reached the Boulder city-limit sign.

They accomplished their eighteen-mile goal in just over two hours. "I never thought I would make it," Biddle stated. When asked what they were going to do next, Koenig replied, "It's time for a nap." Thus completed the First Annual Mines Run for the Women and both look forward to running it again next year. Koenig hopes to make this run an annual event for all Mines students in the future.

Cheating Your Way Through Mines

Survey Uncovers Dishonesty At CSM

When asked "Do you think students at Mines cheat a lot?" one student snorted and answered, "by the time you're a senior, if you still know someone who hasn't cheated I'd like to meet him."

A small sample of students were polled in a survey, and the results were rather surprising. Overall, nearly 65% of the students admitted to having cheated at Mines, be it on exams, quizzes, homework, projects, papers, or other assignments. Of this group, almost 20% said they cheated on exams. Strictly speaking, that means at least one in five students at Mines are lucky to still be enrolled in this school, or any school for that matter.

Repercussions for cheating at Mines are rather severe (as is to be expected in any respectable school of higher educa-

tion). Not only will most students almost certainly face an F in the class they are caught in, "suspension and a notation of same on the student's transcript" is the "general rule ... for serious instances or second offenses" [Brunton, p. 12]. And for those of you who aren't conscious of the fact that you are no longer in high school, suspensions no longer

the severity of the case.

One professor on campus has openly informed her class that

they cheated was that they just didn't care, due to laziness or simple lack of interest in the

mitted to cheating felt guilty. "Of course it feels wrong, I have a conscience like every-

	Male	Female	Total
% who have cheated	66.2	63.64	64.92
% who cheated on exams	21.13	18.19	19.65

she finds these punishments rather harsh, as it is sometimes applied to what she considers minor infractions. She and other professors explained that unless the student they catch has cheated in a major way, they generally deal with the situation themselves in a way they see fit, such as assigning extra work or reducing their final grade by a full letter grade.

Still, students feel the extra points gained from cheating are worth the risk. Of those surveyed, a good portion said the reason

class material. One student explained that the classes he cheated in were core classes or otherwise insignificant classes - i.e. those which taught material that he would never again use since it was outside of his major department.

Others cheated because of the toughness of the class. Physics II and organic chemistry were often mentioned as such classes. Students said they felt the class pace was too rapid for the level of difficulty. Professors were also listed as reasons for having cheated. Some professors "just can't teach worth crap, and since I don't always have the will or time to teach myself out of the book, sometimes I resort to cheating," claimed an angry student.

Nevertheless, almost every interviewed student that ad-

one else, but if the professors did a better job explaining, I wouldn't need to cheat," explained one student. To help ease the guilt some students make up their own rules about cheating. For example, a lot of students feel that unless something is specifically forbidden by a professor, it is not cheating. "Putting formulas in my calculator is not cheating in some classes because the professor never said we weren't allowed to," said one person. Others claimed that "if professors don't want students putting formulas into their calculators, then they should ban the calculators completely [like the MACS department has]. But if they allow the calculators, then I interpret that as meaning anything in my calculator is also acceptable."

1. Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise (commonly referred to as "plagiarism"). The following definition of plagiarism has been synthesized and modified from those given in Black's Law Dictionary (1951) and Ballentine's Law Dictionary (1969):

"Copying or adopting the scientific, literary, musical, or artistic composition or work of another and producing or publishing it as one's own original composition or work. To be liable for 'plagiarism' it is not necessary to exactly duplicate another's work; it is sufficient if unfair use of such work is made by lifting of substantial portion thereof, but even an exact counterpart of another's work does not constitute 'plagiarism' if such counterpart was arrived at independently."

2. Intentionally using or attempting to use unauthorized materials, information, materials, information or study aids in any academic exercise; e.g. copying from another's examination, looking at notes when specifically instructed to the contrary, or obtaining assistance on a take-home paper or examination when specifically instructed not to do so.
3. Taking material from the library that is there for the use of all students and is not to be removed without permission.
4. Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.
5. Unauthorized use of another's computer program, disk or tape.

An excerpt from the campus rules section of the CSM Brunton.

The Search for a New President

Mike Thornbrue

As many of you already know, Mines' former president Ted Bickart resigned after the last school year. Since then, the school has been in the capable control of Dr. John Trefny. At the same time a search committee has been looking for a new president to fill Bickart's vacated position permanently. That search has been narrowed down to three candidates, Dr. Lewis Duncan from Dartmouth College, Dr. Curtis J. Tompkins from Michigan Technological University, and Dr. Bonnie J. Dunbar, a former NASA Astronaut.

Lewis M. Duncan received a

bachelor's degree in physics and mathematics as well as his doctorate from Rice University. Dr. Duncan has served as a research scientist and section head in the Division of Earth and Space Sciences at the Los Alamos National Laboratory. He has also been a faculty member at Clemson University and associate dean for the College of Sciences. Dr. Duncan also served as dean of the College of Engineering and Applied Sciences as well as acting president of the University of Tulsa. Dr. Duncan visited CSM April 17 and 18.

Curtis J. Tompkins became Michigan Technological University's

eighth president on September 1, 1991. Before that, he served as dean of the College of Engineering at West Virginia University. He has also been a faculty member at the University of Virginia and the Georgia Institute of Technology. He earned his Ph.D. in industrial and systems engineering at Georgia in 1971. Dr. Tompkins will visit CSM on April 25 and 26.

Dr. Bonnie J. Dunbar is serving as NASA Johnson Space Center's Mission Specialist Astronaut and the Center's Assistant Director for University Research and Affairs. In addition to five space flights and more than 50

days in space she holds bachelors and masters degrees from the University of Washington and a doctorate in mechanical/bio-medical engineering from the University of Houston. After receiving her bachelors degree, she worked for Boeing Computer Services as a systems analyst. She also conducted research for her masters thesis in the field of mechanisms and kinetics of ionic diffusion in sodium beta-alumina. She has also participated as a visiting scientist at Harwell Laboratories in Oxford, England. Additionally, Dr. Dunbar has been a senior research engineer at the

Rockwell International Space Division in Downey, CA as well as an adjunct assistant professor in mechanical engineering at the University of Houston. Dr. Dunbar will visit CSM of April 30 and May 1.

The President of Mines is the Chief Executive Officer of the University. The president is responsible for all operation of the school as well as the strategic plan for the school's future. All four vice presidents at Mines, as well as the office of legal services report to the president; the president reports to the Board of Trustees.

Greek Speak

Dan Benedict

As a part of the Greek Community, one realizes very early on that life is not all fun and games. For CSM, it seemed as if things could never get any better. Everything was going so smoothly on both the academic and social fronts in the aftermath of E-Days that we seemingly forgot that tragedies can and will occur, often out of the blue. It is with a heavy heart and on behalf of all the members of the Greek Community, that I extend my deepest condolences to the family of the member of the freshman class who has left us; gone much too soon. Nothing I could ever say or do could come close to expressing the emotion surrounding the situation, so I yield in trying. The one recurring thought I have, though, is this: treasure and appreciate your loved ones and friends, for they may be gone tomorrow. I'm thankful everyday for the people in my life, and I only pray that they know and always remember that. We'll miss you, Jeff....

In other news, I would like to thank Mariah Forte for contributing the following:

The Colorado Delta chapter of Pi Beta Phi was saddened and troubled this December when one of our members approached us with some very daunting news: she had been diagnosed with Lupus.

Lupus is a disease that many people have heard of before but most know very little about. Our chapter was in that same situation, so a group of us sat down and did some research on the subject and here's what we found out:

Lupus is a chronic inflammatory disease that can affect various parts of the body, especially the skin, joints, blood, and kidneys. Lupus is an autoimmune disorder where the immune system loses its ability to tell the difference between foreign substances and its own cells and tissues. It can be compared with other autoimmune disorders such as mono and AIDS. Usual symptoms include sun induced skin rashes, fatigue, arthritic type joint pains, and in very severe

cases fever caused by the body attacking such organs as the kidneys, lungs, heart, intestines, and the brain. However, the body only attacks these organs one at a time.

In the case of our sister she had skin rashes, severe joint pains, bladder infections and a temperature of 101°F for over a month. Imagine trying to be a varsity athlete and a student here at Mines with a fever for a month straight.

Due to the irregular and inconsistent symptoms lupus is very difficult to diagnose. The causes of lupus are unknown, but scientists believe there is a genetic predisposition to the disease. It is known that environmental factors like infections, antibiotics, ultraviolet light, extreme stress, certain drugs, and hormones also play a critical role in triggering lupus. Lupus is often called a "woman's disease" despite the fact that many men are affected. Lupus can occur at any age, and in either sex, although it occurs 10-15 times more frequently among adult females than among adult males

after puberty. More than 16,000 Americans develop lupus each year. It is estimated that 500,000 to 1.5 million Americans have been diagnosed with lupus.

Currently the symptoms are known but it can take years before enough occur for lupus to be diagnosed, especially since many lupus symptoms mimic other illnesses. There is no single laboratory test that can determine whether a person has lupus or not. Once lupus has been diagnosed it can be controlled but not treated. Ten percent of people who are diagnosed with lupus die within ten years. Research is ongoing for the causes, treatments, prevention and cure for lupus and more money is needed for the awareness of this disease within the medical community. Unfortunately the hope that research can find the cause and a cure for lupus is diminished by the fact that less federal money is spent on lupus research per patient than for AIDS, leukemia, multiple sclerosis, muscular dystrophy or cystic fibrosis.

So we decided to take this information we'd learned and

use it to help our sister and all the other victims of this mysterious and unfamiliar disease. Our idea was to call on the help of our fellow Greeks here at Mines. We set up a coin drive called Loot for Lupus and collected spare change through the month of March. The response we received from the other fraternity's and sorority's was amazing! The Beta's collected \$920, the Kappa Sig's \$378, the SAE's \$343, the Alpha Phi's \$62, the Sigma Nu's \$55, the FIJI's \$47, the Sig Ep's \$46, the ATO's \$29 and the Sigma Kappa's \$28 for a grand total of **OVER \$1900 to be donated to the Lupus Foundation.** We want to thank every member who donated to our cause and I would like to encourage you to visit the Lupus foundation website at www.lupus.org to learn more about the research being done on this disease and what our local politicians are doing to help. You can also find information on how to make your own tax-deductible donation to help everyone who is affected by this disease.

Greenspan Holds Too Much Power

James Trask

Background Information: The Federal Reserve System (nicknamed the Fed) was established as the nation's central bank by an act of Congress on December 23, 1913. Its primary responsibility is the formulation and implementation of monetary policy. The formulation of monetary policy involves developing a plan aimed at pursuing the goals of stable prices, full employment, sustainable international trade, and more generally, a stable financial environment for the economy. The Fed implements these policies by influencing changes in interest rates and the amount of money or credit circulating in the economy. To accomplish these tasks, the Fed is divided into two major branches, the Federal Reserve Bank and the Federal Open Market Committee.

The Federal Reserve Bank provides checking accounts for the Treasury, issues and redeems government securities, and acts in other ways as the fiscal agent for the U.S. government. Since the Federal Reserve Bank has such a large job, it is broken up into 12 districts around the United States. Each Reserve Bank holds the cash reserves of depository institutions and offers them loans in return. They move currency into and out of circulation and process millions of checks each day. The Federal Reserve Bank is run by the Board of Governors, which

consists of seven members appointed by the President and approved by the Senate. The Board has regulatory and supervisory responsibilities over domestic and foreign owned banks, and bank holding companies that are members of the system.

The seven board members constitute a majority of the 12-member Federal Open Market Committee (FOMC), the group that makes key decisions affecting the cost and availability of money and credit in the economy. The other five members of the FOMC are Reserve Bank presidents. The FOMC is the most important monetary policymaking body of the Federal Reserve System. It directly influences interest rates between banks and consumers by purchasing or selling U.S. government bonds. If the FOMC purchases government securities, then more money will be circulating in the open market and interest rates will decrease. Along with the FOMC's influence on interest rates, the Federal Reserve Act requires the Board of Directors to set discount rates. These discount rates regulate the interest charged to institutions that borrow from the Federal Reserve Bank. They also influence the federal fund rates institutions charge each other when exchanging money, and the national interest rates these institutions charge consumers. Both the Federal Open Market

Committee's involvement in the bond market, and the discount rates set by the Board of Governors, regulate the amount of money circulating in the economy.

Alan Greenspan is chairman for both the Board of Directors and the Federal Open Market Committee. He replaced Paul Volker in 1986 to begin his 14-year tenure of relatively light economic loads. However, the troubled stock market and recent recessions in the economy have challenged Greenspan to prove himself. The country now raises their eyes to the hero of the Fed that has been successfully fighting inflation for over a decade. The overwhelming question is: can he get us out of this one?

Tremendous Power: It is obvious to the common stock holder how much power Alan Greenspan holds. A simple decrease in discount rates stimulates national banks to trade more money, give out more loans, and reduce the credit on all transactions for both companies and consumers. The rebounding economy in turn benefits banks because people are buying more cars and houses, and companies are borrowing more money. So one day Alan Greenspan decides to lower the interest rate, and the next day every common consumer has some extra cash burning a hole in his pocket. Unfortunately this philosophy also works on the opposite end

of the spectrum. If the FOMC decides to sell government bonds in order to increase the interest rates and avoid inflation, the common consumer will be short on cash. The power of the Federal Reserve Bank to easily manipulate the economy develops a major concern among consumers. Who will look out for the little guy? Certainly big businesses and Alan Greenspan know what they are doing. If there is a major change in store for the economy it will most likely hit the average consumer hardest. Can we trust Chairman Greenspan to make the best decisions for both large companies and consumers?

Past economic dilemmas have been avoided due to good decisions made by the Federal Reserve System. They are not extremists. Last month Time Magazine quoted that "Greenspan... has always been extremely wary of overindulging into the markets and may be even more so these days, when their criticism of him has reached a new peak." The FOMC also confers with other government agency officials, representatives of banking industry groups, members of Congress, and academicians to discuss future economic plans and the goal of our national market. Currently a number of problems are facing our economy today: a crashing NASDAQ, a decline in consumer and business confidence, sharp cutbacks in capital investment at home, and the struggling of

Japan's economy. The suffering stock market has propelled society into a recession that is causing angry consumers to demand government action.

Not everyone is happy: Some feel that the Fed's actions have been successfully stabilizing the economy and are protecting us from an even worse recession than we are in now. Others blame the Fed for not decreasing the (previously raised) interest rates more than the half point deductions made in January and March. Critics fear that the years of inflation fighting by the Fed and other central banks have helped create a different economic world than that in which the policy makers grew up. They question whether or not Alan Greenspan and his colleagues will be able to constantly stabilize our economy without disastrous side effects. The past would show that the Fed has done a relatively smooth job of keeping the economy stable. However, I feel that some of the Fed's power should be distributed or controlled by other organizations. This way Alan Greenspan will not have the power to solely make or break our economy. In conclusion, I think that whether or not you feel the Fed has been doing a good job regulating interest rates and money flow, it should be slightly concerning that one mistake made by the Fed may crush your entire college savings. *This article was written as a partial fulfillment of EBGN 211, Principles of Economics.*

The ABC of Monetary Policy: Lower is Better

Hildie Henderson

It's almost like some ludicrous play. Our smiling President appears on national television and portends economic disaster. Stock prices are falling like rain. Everyone looks worried. Some mysteriously powerful economic guru known as Greenspan waves his hands and manipulates our interest rates. Interest rate is a good name for it. I can't remember any other time when economics have seemed so engaging. But the real question for Americans is: what the hell is going on?

Indeed it is a tangled web, the inner workings of the economy and the interest rate. Few would want to sort through what is going on. But fortunately, after boring myself senseless staring at the Federal Reserve web-site and mercilessly death-marching myself through dull economic papers, I have made some light of the system. I am now prepared to enlighten the general public, saving you from hours of (trust me on this) mind-numbing boredom.

First we must intelligently hypothesize on who is changing the interest rate and how. My first theory was that Alan Greenspan is a magical leprechaun, but this is, in fact, wrong.

Inflation rate adjustment is carried out by the entire Federal Open Market Committee. This committee consists of important Federal Reserve Bank Figures, including the Board of Governors. The chair of this board is Alan Greenspan. It is important to remember that the Fed (Federal Reserve Bank) is inde-

pendent of the U.S. government, although members of the board are appointed by the President. The reason we allow them control over interest rates is because we know it is in the interest of bankers to keep our economy in good shape.

The goals of the Federal Reserve Bank are maximum employment, stable prices, and moderate long-term interest rates. In pursuit of these goals the Fed manipulates interest rates through control of the national money supply (the sum of deposits inside banks and money in circulation; i.e. how much money everyone has access to).

The bank has more than one method of manipulating interest rates, but primarily uses open market operations. This is where the Federal Reserve Bank buys and sells government securities (bonds). Selling securities decreases the money supply, because people's money is then wrapped up in bonds, and not immediately accessible. Decreasing the money supply in turn raises the interest rate, because the same amount of money is demanded by society in the form of loans, etc, but less is available.

The Fed may have to consider many issues in deciding how to manipulate the interest rate. One of the Fed's greatest fears is something called stagflation, which is when we are experiencing inflation at the same time that our production rates are lagging. At this point the Fed has to be careful with the interest rates, because alleviating inflation could worsen economic recession and vice versa.

sion and vice versa.

Now that we've figured out who changes and interest rate and how, let's examine how these changes affect the economy. The four main avenues through which the interest rate effects the economy are:

- 1) The valuation of the dollar
- 2) Investment
- 3) Inflation
- 4) Public Perception

When interest rates in the United States are high, demand for anything valued in U.S. dollars increases. Because of this greater demand our money gains value relative to foreign dollars. This sounds good, but it means that we buy too many cheap imports, sell too few exports, and generate a trade deficit. We have one of these right now, so the recent drops in the interest rate will be good for our economy at least in some sense.

Lower interest rates also encourage people to invest, because loans are "cheaper" over time. This would explain why, according to some extremely dull economist, sharp spikes in the interest rate have preceded every recession since 1972. These high interest rates are generally followed by slow growth, falling output, and unemployment.

Yet once again, things are not as simple as they seem. Our current economic downturn, for example, has its own particular set of circumstances. According to many economists, the U.S. household and business sectors are mired in debt and we have been investing a great deal of money in unfeasible businesses (remember all those dot-coms

that kept losing thousands of dollars every year?) In fact, according to the Federal Reserve's last press release, excess production capacity has emerged in many businesses. So in this case, one would think that lower interest rates would only cause more irresponsible use of money and worse debt. So obviously interest rate manipulation has different affects based on the particular economic situation.

Then you might wonder why we sometimes raise the interest rate (provided your mind hadn't wandered to another topic, say, drinking). That would bring up our next topic, which is inflation. Inflation is rapid devaluation of the dollar and most often occurs when our economy growing too fast. This is why your grandparents tell stories about how soda used to cost a nickel (but strangely does not account for their stories of working 36 hours a day with no shoes). Raising the interest rate helps to dampen our economy and slow our inflation rate.

Probably the most important factor affected by the interest rate is public perception. Even if we should be headed out of a recession, if people truly believe the economy is headed for a crash, they will cause it to do so by not investing or consuming. This is known as consumer confidence. Because people generally believe that lowering the interest rates will improve the economy, they improve it themselves when interest rates are lowered.

So we can conclude that lowering the interest rate should usually alter the economy based on

investment capabilities, but our perception of what changing the interest rate does also changes the state of the economy. Too many negative expectations can make interest rate manipulation near worthless.

One might ask, where does this leave us in terms of our current economy. I did promise that reading this paper would help us interpret the interest rate situation. Let's examine the evidence. We know that lowering the interest rate would reduce the trade deficit, which is good. It will also encourage investment, which may cause waste and indebtedness. We know that inflation rates are low, so we don't have to worry about stagflation problems. We also know that our economy is much like when Tinker-bell was dying in *Peter Pan*: we have to believe in it for it to stay alive. My personal answer would be that we should lower the interest rate, because it will reduce the trade deficit and improve consumer confidence. In addition I would put faith in that people will learn to invest their money more wisely. You yourself must make your own educated guess as to what is best for the economy, much as the Fed is forced to do based on many changing economic factors.

In the end, the only absolutely correct conclusion we can come to is that we have more respect for what the Fed has to go through, and that we will never read a web-site as boring as theirs ever again.

This article was written as a partial fulfillment for EBGN 211, Principles of Economics.

Will the FED Reduce Interest Rates Again?

Stephanie Wolfe

Interest rates are presently the source of a significant debate. Interest rates impact the economy whether they are going up and driving consumer confidence down or going down and giving consumers a greater buying power. The Federal Reserve Board (the Fed) has been struggling to adjust interest rates in order to keep the economy stable. Are the actions of the Fed really right for the economy's current situation? Many would argue that the Fed is not being aggressive enough and if it is going to change anything, it must be bolder in its actions. Others would argue that the Fed's decisions have been too audacious and are not acting as a benefit to the economy. Either way, the Fed is not doing its job due to the current economic situation.

Those that say the Fed's current measures have been too aggressive have several key arguments. Last May when the Fed raised interest rates by a half a point, people regarded it as

overkill, only deferring the economy for a short period of time. To avoid the risk of inflation, Fed Chairman Alan Greenspan justified increasing rates during a period when demand for investment capital exceeds supply. It is also argued that the series of interest rate hikes from June 1999 through May 2000 were too intense. Critics point out that the changes, such as the three interest rate drops since January, have come too late, increasing the chances of a recession. The Fed's power is substantial and if it is too risky in its decisions, the economy could suffer. People are reluctant to spend their hard earned money because they are not sure what the Fed's next move may be.

People on the other side of the argument feel that the Fed has not done enough to help the economy. They question whether the Fed understands that the half-point cuts will hardly be worth it without an accompanying expansion in the supply for liquidity. Some economists believe that given the con-

tinued plunge in the stock market, the Fed will have to do more to re-establish consumer confidence than merely cutting interest rates further. Until they are able to convince consumers that the economy is stable enough to spend their money, people will continue to sit tight on their nest eggs. In the latest National Association for Business Economics (NABE) poll, 34% of the economists surveyed felt the Fed's policy was "too restrictive". When the most recent half point cut was made in late March, people were disappointed the Fed did not make a bigger cut. People don't feel that the Fed is using its full potential to help the economy. If it did, the Fed's actions could have a positive impact.

It is tough to decide whether the Fed's actions have been appropriate, and if they haven't to what degree have they failed. "Goodbye Goldilocks" best describes economists' attitudes about the Fed's policy, inferring that the economy is not "just right." It seems that the Fed is reluctant to be aggressive or to stand its ground and stick with

the current interest rates. "It was appropriate for policy to tighten at that point and slow the economy down. Now, after the fact, the economy slowed more than I expected and more than I would say I would have found sort of preferable," Federal Reserve Board Governor Laurence Meyer comments. The three half point cuts appear to be an attempt to keep people happy rather than to really make a difference in the economy. "The Fed lowering interest rates is powerful medicine, but it takes nine to 12 months to fully affect the economy. The problem is we could have a recession before then," says David Wyss, chief economist at Standard & Poor's. Until the Fed figures out what its intentions are no one will be happy, least of all the consumer.

The Fed has the potential to make or break the economy with its decisions about interest rates. However, if the Fed continues to change rates the way it has over the past few months, the Fed will not be successful in

changing the economy. Even though the Fed is not the only factor that influences the economy (i.e. energy crisis, Bush's tax and social security plans), it is time for it to get off the fence and make changes to its monetary policy that will benefit everyone so that the economy does not deteriorate. The Fed must make drastic cuts in interest rates in order to spark life into the sagging American economy. This will encourage people to spend their hard earned money and boost the current economic situation.

Will the FED reduce interest rates in the next meeting of the board of governors? The answer is yes, may be as much as a half percentage point. Will this help the economy? The answer depends on Wall Street reaction to such cuts. Will interest rates reduction boost consumer confidence? Only if people believe that they are not going to lose their jobs in the near future.

This article was written as a partial fulfillment of EBGN 211, Principles of Economics.

Poetry Corner

For next year's poetry submissions,
e-mail oredig@mines.edu
Have a great summer!

*Migrant through this life a voyage of malcontent I enter
your world hoping to become the foam on your ocean A
parasitic state of being looking for release from these
dreams of despair Haunted visions of another lifetime
bleed out loud screaming your name Now your tears fall
like an angel from the heavens As we speak of fatality,
alone But dancing in the light with you was like painting
perfection Released from the satanic drudgery of need
Our fear was diminished from the radiance of our worship
And I can't utter another goodbye
-Zach Miller*

Stand in the middle of the road as the space aside
moves as stars with time. Seeing the past in front of
your eyes as the future fades away the way water goes
through the hands. So wrong are the feelings of
pressure and fate that the emptiness enlarges as the
blood fills the heart. Hair on skin floats with the kits
in the sky. Visions shin of the tint from the blurring
colors that glimmer in the pudding rain. Air touches
the breath that socks through the silk, hay and fir to
the wind of the last. Were all is silent and loud to the
world, were people freeze when it's so hot out side,
were the thoughts of pretend take slight little of a lot
to mend and with the help of a friend.

The End

—ljpr

11 April, 2001, Wednesday
-Anonymous

*A shadowbox - full of meaningless things,
broken, out of the sun, but kept behind glass forever.
The years never wipe away dust, they only paint
the corners first with cobwebs to cover the entire face.
To be seen no more.*

*Limp, numb, no longer feeling terrestrial pain,
but do flames lick his fingers now? Is his tongue
bleeding, and do his eyes shed eternal tears?*

*A word, an upturned lip, could this have dis-
tracted his dazed, unheeded path through the door
with no threshold? Do you even care? Can I even
cry?*

*Boy, I don't know you, did you have a dog, did
you love to sing, did you play with toy boats upon
open, shimmering water only a few years ago? Was
your mind filled with wondrous ideas, thoughts; did
you want to save the world? Why did you leave us?*

*Turn away, eyes of the crowd, ignore - pretend
it didn't happen - nonexistent faces in nonexistent
photos can't melt ice.*

I care.

*I'm crying, boy, the depths of my soul call out
for your recognition - I see your burning eyes within
those of all I see, and yet even so, they are mute; I am
dumb.*

*Only shadows pass - only their arms embrace -
neither of us feel the other - numb.*

*Tell me, downturned faces, blank stares, DO
YOU EVEN CARE?!*

Mines Psalm 23

My mentor is my torturer. I shall not sleep.
He maketh me take many tests, he maketh me study my
brains out, he destroyeth my social life.
He guides me in paths of science for his Salary's sake.
Yea tho I walk through the valley of the shadow of Mines, I
shall fear no math, for thou has twisted my mind.
Thy TI and thy knowledge, they comfort me.
You prepare a Test desk for me in the presence of my
peers.
You point out I am a worm, I wriggle endlessly.
Surely introvertedness and slobbiness will follow me all the
days of my life,
and I will dwell in the Cubicle forever. Amen

~Marauder

Mines Activity Council: Making Mines Fun

Mike Thornbrue

Have you ever wondered who comes up with all the great stuff there is to do at Mines? Here is your answer. Chances are you want to thank the Mines Activity Council. MAC is the group that brings you great events like E-Days, Homecoming, the Friday Afternoon Club, the Back to School bash, and many special events throughout the year.

Some of this year's events included the hypnotist Fredrick Winters, a lecture by Loyd Auerbach titled "True Tales of Ghosts and Haunting," and a show by the Impulse Theatre. MAC also had tickets to Colorado Avalanche games, powder puff football at Homecoming, the Battle of the Bands at E-Days, and FAC had awesome comedians.

The primary goal of Mines Activity Council is to provide co-curricular activities for Mines students. MAC also promotes community service with events like the charity barbecue at E-Days and making cards for Children's Hospital.

The Mines Activity Council is made up of the MAC chair, Jessica Jordet, who oversees the council; the FAC chair, Nate Palmatier, who is in charge of the Friday Afternoon Club; the Special Events chair, Justin Carlson, who is in charge of bringing some of the more cre-

ative events to campus; the E-Days chair, Brandon Hamilton, who put on an amazing E-Days; and the Homecoming chair, Drea Riley, who made homecoming something to remember. Combine these great people with lots of volunteers and you have the Mines Activity Council.

If you would like to have a chair position on next year's Mines Activity Council, you are too late. Applications for chair positions were due the week of April 2nd. Don't be discouraged, though. MAC would not be able to put on any of their events if it weren't for the help of volunteers. MAC is always looking for volunteers to help make things happen. Volunteering for MAC is a great way to meet people. You can have a lot of fun and make life-long friendships. You can usually identify a MAC person when they wear MAC t-shirts. If you would like to volunteer for MAC visit their booth at the Celebration of Mines or talk to a MAC representative at any MAC sponsored event.

To give you an idea of what the Mines Activity Council does for you, here are the basic goals MAC meets every semester. The Special Events chair tries to have at least one event every month. The MAC chair usually puts on two or three events every semester. All MAC events are for the

entire campus and most of the events are free. Attendance for a MAC event can range from 50 people at smaller events to the entire school for events like E-Days. The Friday Afternoon Club had an average attendance of 110 people this year. The biggest FAC was 170 people. The overall goal for MAC is to put on three events per month.

MAC has one of the most important jobs on campus: making sure Mines students are having fun. According to Jessica Jordet, "One of the biggest challenges that MAC faces is trying to plan events that will interest the entire school." At the same time, just about everybody is depending on you. Director of Student Activities Cairn Lindloff says that "Ninety percent of campus-wide programming is done by Mines Activity Council." And it looks like MAC is doing a great job. When asked, a random Mines student commented, "Mines Activity Council makes sure Mines Students have fun."

Mines Activity Council has also won several awards from the National Association of Campus Activities. These awards include Campus Program of the Year for 00E-Days, Outstanding Student Leader won by Jessica Jordet, and Adviser of the Year won by Cairn Lindloff.

England and Legacy

Rusty Lannin

The United Kingdom: an empire that at one time controlled almost all of the known world. Australia, Africa, the Middle East, India, Asia, and the Americas had large parts, if not the entirety, of the land they encapsulated under the control of a single person. The KING. Wielding power and judgment with the nod of a head or sceptre, he affected millions of people and their descendents, including those of us today.

Fast forward to Thursday, April 19, 2001. What is there now? The United Kingdom today is little more than words on paper that pass through the hands of governments and the people, not unlike the old American monopolizing company, Standard Oil. The unmistakable difference is that it will only take, at least in theory, two more mergers to have the long dead Mr. John D. Rockefeller smile at his creation Standard Oil and to have it back and alive in living color; you can almost hear him laugh. This will never hap-

pen for the United Kingdom.

The legacy that has descended over time and our eyes has placed the United Kingdom on a pedestal. A few months ago a meeting between President Bush and President Fox of Mexico was reported in the national media as a practice meeting with the British Prime Minister Tony Blair. WHY? Mexico and Canada are the only countries that border us. Not to mention that they are also large exporters and importers of goods that are used and made in the U.S.

If we look at the nucleus of the United Kingdom we find Great Britain, which is made up of England, Scotland, Wales, and Northern Ireland. The whole of Ireland was under the control of the British until Michael Collins led a revolution in the early 1900's which, after years of fighting and deaths, an Irish Republic was formed.

Even today there still is a conflict over the last northern-most countries the British still control. Wales and Scotland both have their own parliament and governing bodies. Both also, especially Scotland, have rumbled about independence for the past years. Scotland has gone as far as to print their own money. This pound is equivalent to an English pound only with different faces on it.

As for today, the Queen is a grand figurehead and her subjects can only hope that her son will pass (abdicate) the throne so that the next King can be William. Even though the old saying is that "The sun never sets on the British Empire," maybe someday, sometime, people will finally accept that England is only a part of a small island with great people just north of France. **NOTHING MORE!!!!** The sunset will be absolutely amazing. I don't know, it was just an odd thought.

Rusty's
Odd
Thoughts

Ooodles of Noodles

Gina Gassman

Don't feel like cooking? Sick of Aramark and greasy fast food? No problem! Go to Noodles & Co. Noodles & Co. is a cheap, healthy alternative to other varieties of dining out. Noodles & Co. features over 15 different entrees broken into 4 different categories: Noodle Bowls, Noodle Soups, Noodle Salads, and Green Salads. In all, the menu consists of 10 different noodle bowls, two home-made soups, five fresh salads, a stone-oven flat bread and three desserts. Bottled beverages, including Colorado-made Mountain Sun organic juices and Stewart's sodas, are available to complement individual dishes. A selection of bottled beer and wine are also available.

Noodles & Co. is far from fast food, but it's not really a sit down restaurant either. It's a cross between the two. First you order whatever you want, pay for it at the register, get your drink, and then sit down. The cooks in the kitchen then prepare your order FRESH right and someone brings you your food steaming hot about five minutes after you've ordered. And, there's no need to tip like in a sit down restaurant!

In the "Noodle Bowls" category you will find most of the delicious selections of Noodles & Co. ranging from very exquisite dishes such as Japanese Pan Noodles (prepared in a 450 degree sauté pan with a generous portion of fresh udon noodles, broccoli crowns, julienne carrots, crunchy bamboo shoots and shitake mushrooms tossed with a proprietary Indonesian sweet soy sauce, pickled ginger and garlic, and then served in a heavy, white china bowl topped with mung bean sprouts, sliced scallions and a sprig of fresh cilantro) and Pesto Cavatappi to very simple, but yummy dishes like Buttered Noodles and Parmesan and Wisconsin Mac and Cheese.

The "Noodle Soups" category contains Thai Curry Soup and good old Chicken Noodle Soup.

The "Noodle Salads" are just like the "Noodle Bowls" only they are served with fresh vegetables. Those selections include the Mediterranean Noodle Salad, and the Spicy Peanut Salad (Vietnamese Style).

In the last category, "Green Salads," you'll find just exactly that. These salads, the Big Salad, the Caesar Salad, and the Cucumber Tomato Side Salad, don't contain any noodles, only vegetables.

Noodles & Co. started in 1995 in Boulder by Aaron Kennedy. Every semester, Kennedy is a guest professor at the University of Colorado, the College of William & Mary, and the University of Wisconsin, where he received his MBA in Marketing Management. He also guest lectures at the Boulder-based Cooking School of the Rockies executive culinary program.

Since 1995, the franchise has grown to over 20 stores in Colorado, Illinois, Wisconsin, and Minnesota. The Colorado stores are located at Downtown Denver, South Boulder, North Boulder, Aurora, Highlands Ranch, Ft. Collins, Lakewood, Louisville, Broomfield, 28th & Pearl, 6th & Broadway, Wheat Ridge, and Cherry Creek. The store in Wheat Ridge is the closest to campus; it's only about a 10 minute drive. It is located at 32nd and Youngfield (by Wal-Mart).

It is the goal of every Noodles & Co. to abide by the company mission statement: "To always nourish and inspire the individuals within the communities in which we serve." So, the next time you're craving something fast, healthy, delicious, and cheap, there's only one solution: go to Noodles & Co.

Second Annual Mines Earth Day Celebration

Stephanie Onorofskie

Earthworks, the Mines environmental club, has done an excellent job of promoting environmental awareness around the Mines campus in honor of Earth Day on April 22. This week they have organized educational and social activities for the Mines community. Wednesday, Earthworks brought Pat Keegan, from the Colorado Energy Science Center, who gave a lecture entitled "The Climate Change Problem and Opportunities for Solutions in the Energy Sector". They are also sponsoring the Second Annual Earth Day Celebration at Mines this Friday, April 20 at 4:00 at the IM fields (or the Fieldhouse if it's raining outside).

The celebration is completely FREE and will include live music, food, lemonade, soda, and beer from Golden City Brewery. The festivities begin at 4:00 with *Tu Si Tala* followed at 4:30 by folk and

bluegrass recording artist *Michael Lille*. At 5:30 *Green Harvest* will play. *Joshua Three*, a Fort Collins rock band, is headlining and will play from 6:00-8:00.

While you are enjoying the free music, food, and drinks, you can



Earthworks members tie-dyeing t-shirts for a fundraiser.

who will have free samples on hand, and displays by Environmental Building Products and the Boulder Energy Conservation Center.

If you are starting to think it might be pretty cool to be a part of a group like Earthworks, you're right.

They are in charge of promoting recycling around campus and recycling inkjet cartridges and transparencies. They also do a couple of very fun fundraisers. The whole group gets together to tie-dye t-shirts to sell; they also have a plant sale. In fact, there is another fun Earthworks activity going on Thursday, April 26. They are doing a clean up of the Tucker Gulch trail. If you would like more in-

formation on how to help out with this clean up, or just for general Earthworks information, email earthworks@mines.edu.

It's Time to Salute Alan Greenspan!

Laurie Alzheimer

Apparently we are in a state of economic turmoil. We are in some sort of a recession in which consumer confidence is plunging, followed by sharply declining growth. Consumer spending and business capital investments have plummeted faster than our organic chemistry grades. People demand fast action to solve this volatile economic situation. Alan Greenspan, the hero of economics, has a plan. However, many people are criticizing his genius moves, just waiting for him to make a blot on his near-perfect economic record. Greenspan continues to lower interest rates in an effort to stimulate the economy; however, people are worried that he is not taking a correct approach to this problem and it will cause more of a recession. If Gabrielle Reese were telling you how to play volleyball, you would listen with not a question in your mind that she knew what she was talking about. Why is this any different? Alan Greenspan has the economy in complete control.

First of all, the economy isn't in a recession by the classical definition. That is, we haven't had two consecutive quarters in which output contracted. However, the sudden slowdown in the economy was a shock to everyone, even Fed officials. Feds have high hopes that this "recession" will end as lightening fast as it came, but others are more doubtful. After demand slowed down, companies were left with unsold supplies and goods. Companies aren't going to buy more until demand goes up again, causing the manufacturers to suffer the most.

Companies have also cut back on investment in terms of technology because too much capacity has been added and they are not gaining high rates of return on their enormous investments. Concerns about the surge in energy prices have surfaced. Greenspan, the Feds, and the President plan to help this situation out with a skillful attack on the interest rates.

According to Greenspan, psychologically, it is extremely important to delicately balance an interplay of corporate and consumer confidence. Greenspan has faith that cuts in interest rates will help to jump start consumer and corporate confidence, bringing us out of whatever economic mess we may be in. Even through the slowing of our economy, the growth rate of productivity has been increasing for the last five years. He plans to continue cutting interest rates, possibly a fourth cut before May 15th. Because there is little to no risk of inflation currently, cutting the interest rates is the best plan. The Bush Administration is behind him, working to gain quicker and larger tax cuts.

By implementing these plans, Greenspan counts on consumers taking home more of their paycheck and staying out of debt, ensuring that a decline ceases as soon as possible. We have the most capable people on the job. Although experience is essential, because our economy is changing so rapidly, it is difficult to judge this situation by ones in the past. The action currently being taken is being done

by people that have proved their economic worthiness. The complex economy forces us to realize how little we really know. Who knows how it will pan out? If we end up in a true recession, maybe we should actually be thanking Greenspan for saving us from a much worse one.

The adjustment of the slower economy has been painful. Although Greenspan is doing his best, analysts concur that it will take up to a year before the effects of lowered interest rates flow through the economy. Consumer and corporate confidence are increasing by the second. With lower interest rates, Mr. Greenspan is slowly nursing our economy back to health. If Alan Greenspan says that lowering the interest rates is the way to go, we should all salute him.

This article was written as partial fulfillment for EBGN 211, Principles of Economics

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Going to Europe This Summer?

Rusty Lannin

As the summer approaches ever so fast the question that keeps popping into the heads of graduating seniors, people that just need a break, and people that just don't have anything else to do is, "I wonder if I should go to Europe?" If this is you, then there are a few things you should keep in your thoughts before you board a plane off in to the wild blue yonder.

There are a few big things that American travelers do not know about Europe and should. First, what is the best time to travel in Europe? This is a matter of preference. The most concentrated tourist season is from July to August. This has up's and down's that comes along with this. One advantage is that this is the best time to find interesting things one would want to see open or on display. On the other hand, there will be a thousand other people that want to see it also. The tourist season starts around December with travelers, then grows larger with more travelers and tourist up to April, it grows exponentially once the summer begins with more of everyone. The common view of medieval spackling seems to be shed from buildings in the summer months - giving the views one expects to see once they arrive.

Budgeting seems to be one of the most difficult ideas for inexperienced travelers to grasp. Depending on your own fanatical means, you will be able to make up what ever seems expectable. A budget should be for your entire trip including: food, lodging (hotel, hostel, etc.), travel (Your-rail, bus, taxi, etc.), expenses, unexpected expenses (new passport, new backpack, ect...), and souvenirs & gifts. A very extravagant budget is about \$100 a day. If you can afford this then you will eat quite well, sleep in 2 or 3 star hotels, and send (via mail) very nice things home. A more common budget is about \$40-\$50 a day. This is a more risky time with street food being involved and hostels that you have to pay for clean sheets. About 75% of the people traveling work with this type so you are able to meet very interesting people and sometimes you meet them twice. Occasionally you do see an Australian, Canadian or New Zealander that is on a budget of less than \$10 a day and they seem happy and fed but they are usually on a grand tour of a year or 2 full of odd jobs.

A funny thing that you seem to hear from Americans on their first day or 2 is "I got the International phone card back home and I tried to use it in a phone here and it didn't work. Why?" The question would seem to answer itself, but alas it does not. An International phone card from the states is to call international numbers from the states at a lower rate. Not to call from internationally

numbers back to the states. Phone cards are relatively easy to find at any type of convenience store or something that looks like a convenience store.

A guidebook is the traveler's best friend. Usually called "The Bible" because you swear by it and if something is not in there then it probably does not exist. Let's GO is the #1 sold travel book in the world. So, everyone has a copy. The hotels, hostels, and pensions that are in it will be booked for weeks on end. The preferred guidebook by travelers is Lonely Planet. This book has a detailed history of each country and a nice expected traveling time to different spots that you might want to stop at. It also has an easy to use web page that can give you up to date information that is useful. In the end, hands down, the best way of knowing what is going on is "Traveler News." This is where you find out which hostel is good or full, what time the trains leave, and pretty much anything else you could imagine that might change from day to day. The people you meet in a hall or an elevator can be a volume of resources and soon you become one yourself and do not even know it.

Planning a trip seems to cause distress also. The ideal amount of time to spend in Europe is about 2 and a half months at a time. Very few people can just take off and commence a journey for that amount of time. The trick is to realize that and accept it. Farm too many people try to cram a 10-week trip into 4 and it just will not work. You find yourself on trains all the time, unable to enjoy things because you are on your way to the next, and having loads of different types of change in your pockets since you did not get to use it all up. Decide on a region such as Holland to Portugal and leave the rest for the next time you are there. This will allow time for jet lag, seeing a city for more than a day or three, and detours that you always end up taking.

The last thing that you should know is to remember that you're not in America anymore. People in France speak French and you should be happy if they know any English in which most cases they do, very well. Most of these counties have been around much longer than the United States. The people that live in them have different views of the US some good and some bad. Most people want to ask where your from, what is it like there, why, how come, sometimes the questions can go on forever. But then again isn't that the reason why you wanted to go over there in the first place to see, hear, and experience the differences from America? See it the way you can't and don't here in the States? In then end, even when everything seems to be going wrong you can still say "I'm in Europe right now!" and it just makes everything better. Enjoy and have a great summer.

Miners Take Second in International Competition

Mining Engineers Visit Reno for a bit of Warm Weather

Benjamin Cebrian

This year's annual intercollegiate international mining competition was held on April 14, 2001 in Reno, Nevada. Twelve students from mining and engineering were able to attend; there was one men's and one coed team.

Thanks to the support of Dr. Tibor Rozgonyi and the help of Shannon Mann, along with private sponsors (Barrick, S M E, Scarborough upholstery, Wagner Equipment Co, Carhartt and AMS) the School of Mines was represented in a prestigious

international contest. The equipment provided by some of the sponsors turned more than one head to the CSM team!

This event was not only important for the fun, edu-

cational experience and the contacts that the students are able to make from this kind of event. It is also about the development of a sense of teamwork, in a real-life group activity in which everyone is needed for overall

fessionals. Going to this event fostered both of these goals.

The CSM Alumni meeting invited the 12 young "engineer candidates" to join them at their dinner on this same trip. It was great to share with them all sorts of im-

pressions on the realities of the world that mining engineers are facing nowadays.

Out of 22 teams present at the contest, CSM got a 3rd place award on Jackleg drilling and Track Standing for the

Coed team and at the last minute the men's team lost second place to the Australian team, coming in third overall in the Jackleg drilling competition.



The men's team races on the track standing contest, trying to cross the final line as soon as possible while making sure nothing is left behind.



PDK

Mines Events

4-20: Earthday Celebration

4-20: FAC, 5:00 pm, I-club, Billy Zane

4-26: CLASSES END!!

4-27: Dead Day, Multi-Sport Challenge

4-30, 5-1: Stress Free Zone, Student Center

5-3: Senior M-Climb, 9:30 am

5-4: Commencement

5-5: Graduation

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Recreation Field Crew

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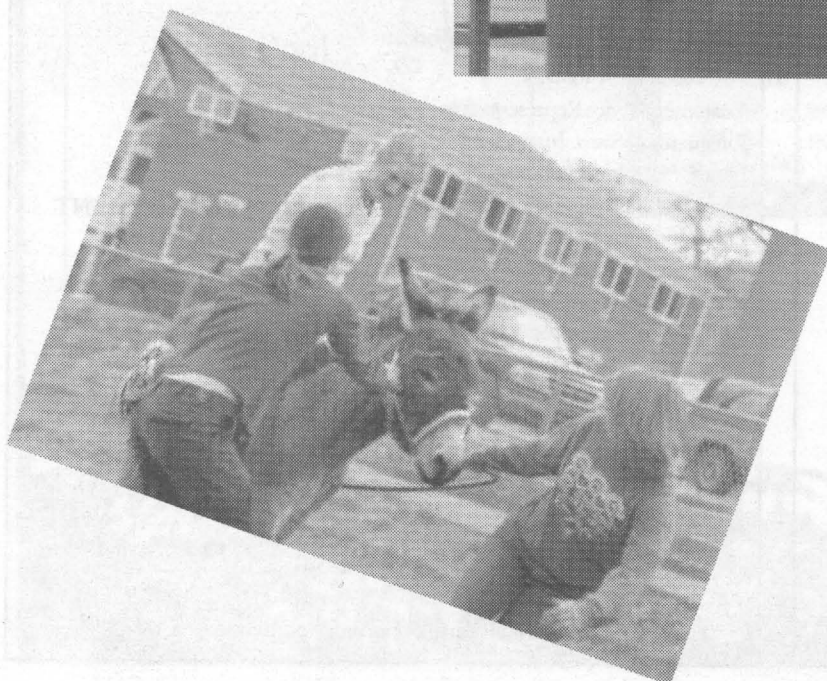
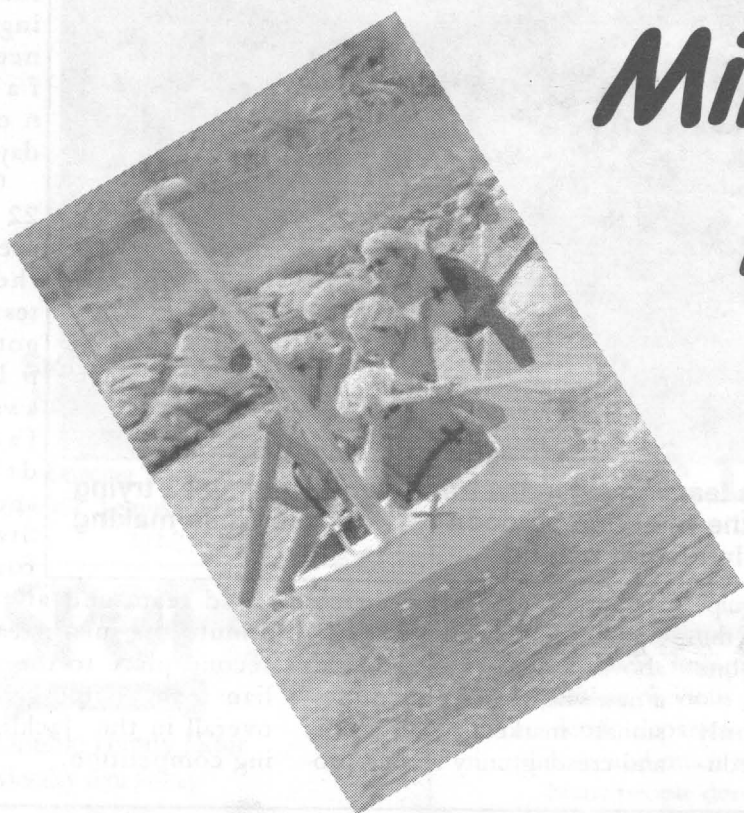
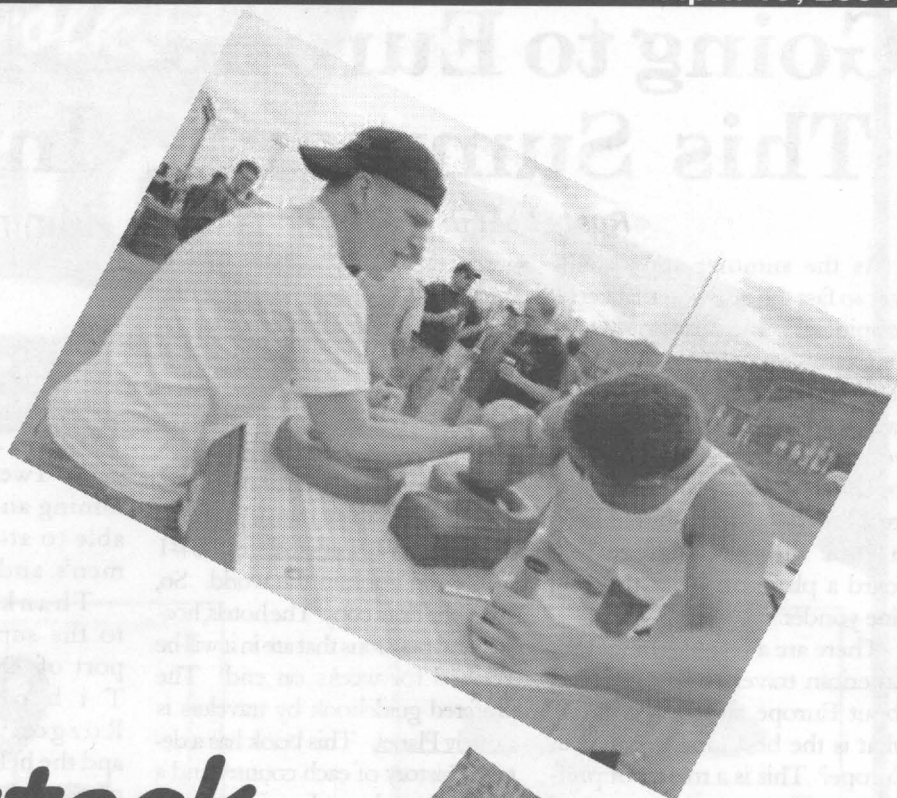
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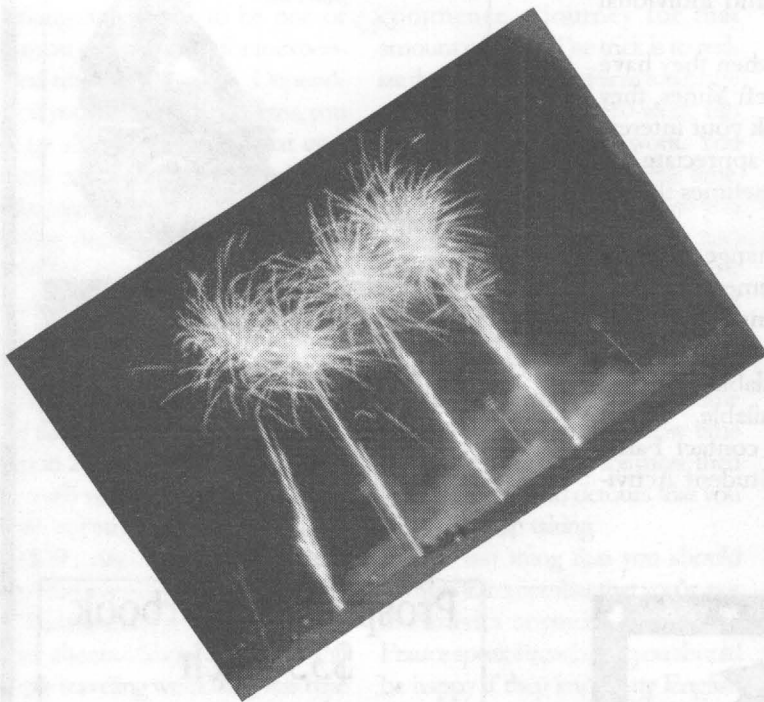
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Time to Remember

Mike Thornbrue

The Prospector yearbook is a proud Mines tradition. The yearbook is a non-profit project. This year's Prospector will be larger than previous years' and will include campus clubs, Greeks, academic departments, events, sports, group and individual photos, and much more.

Many people don't appreciate the yearbook when they have the best chance to buy it. Then after they have left Mines, they regret not having it. A yearbook might not spark your interest now, but you will want it later. A lot of alumni appreciate the yearbook and some call asking for old issues. Sometimes they're available, sometimes they aren't.

Clothes change, hair changes, and people change. People you know now will be gone. You will want to remember these times. You might not want to remember differential equations but you will want to remember the M-Climb and E-Days.

Copies of this year's Prospector are still available, but they are going fast. A few back issues are also available. If you would like to order a copy of the Prospector, contact Faisal Hashem at 303-384-2188 or stop by the CSM Student Activities Office and reserve your copy today.



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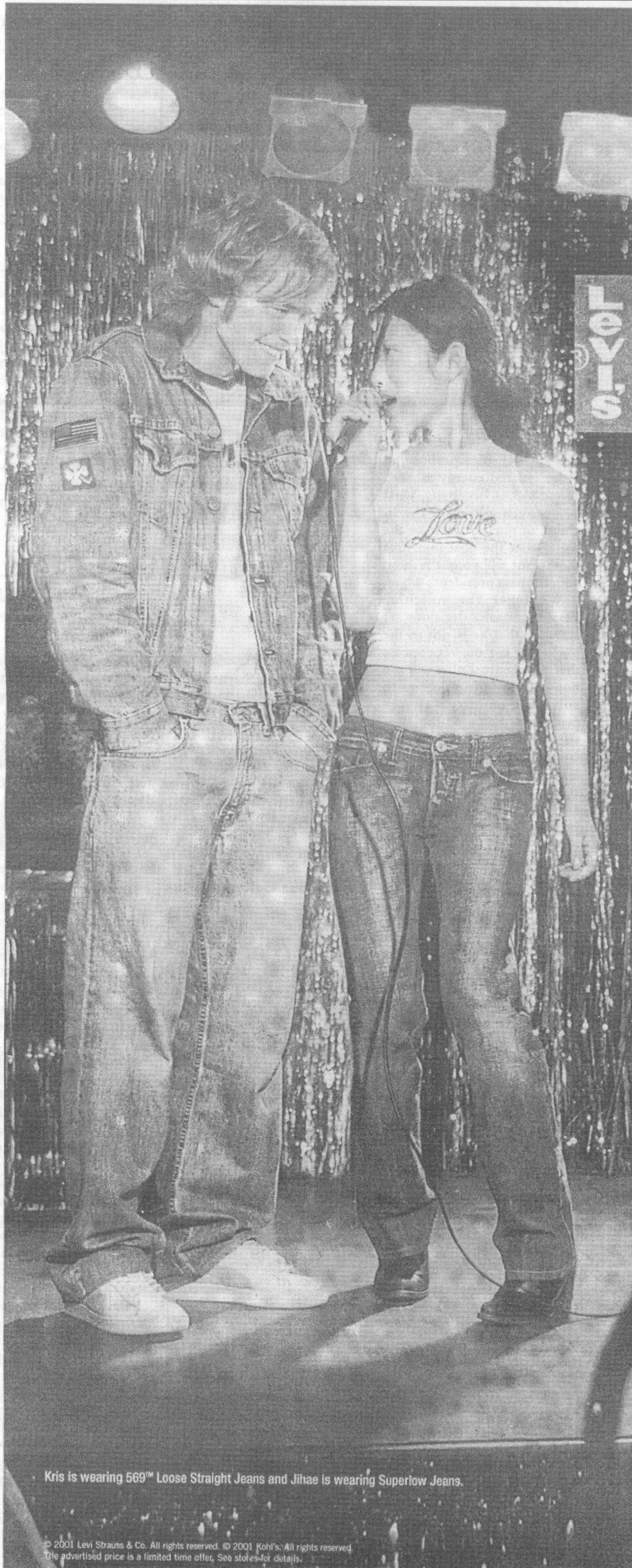
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Bush's Energy Plan: Bad for Big Oil?

John McLaughlin

Over St. Patrick's Day, I found myself having a green beer with an "ol' patty," as he called himself, while he educated me about Irish history, Micks in the U.S., and energy. Seems he worked his way out of the Irish Ghetto of Milwaukee and around the world as a pipe fitter. Along the way he worked on refineries, gas plants, and coal fired energy generators.

The last one, coal plants, is what really interested me. He told me that as a leader in the Wisconsin Pipe Fitters Union he had just been contacted by the state regulators and the public utility about the availability of fitters to work on three new "gigantic", his words, coal plants that were to start supplying Wisconsin energy from Colorado coal. His statement dumbfounded me.

For the last four years of my energy education, almost every speech I have heard of future demand said coal was out and natural gas is in. The plan was for new power plants to be clean burning, highly efficient natural gas turbines. Older coal plants were to be replaced at the end of their life by these new gas plants, too. Few new coal plants were to be built. The net of this was to cut coal's share of nation's electricity generation from 51% to around 40% in the next couple decades. At the same time, electricity production from natural gas was to go from around 16% to 36%.

One might ask why should coal suddenly fall out of favor and natural gas come into favor over the next few decades? The answer was the Kyoto Treaty, the document that called on the U.S. to significantly curb its Carbon Dioxide emissions. However, President Bush, last week, rescinded the United States' pseudo-involvement in the multinational agreement.

Soon after the administration made it clear that it would not enforce the treaty's measures, Vice President Cheney announced the administration's intention to explore expanding nuclear power energy generation. This destroys the latest Energy Information Administration (EIA) report detailing their forecasts for power generation where they predicted a 35% reduction in the nation's nuclear power capacity. Under Cheney's plan it could be assumed that older nuclear capacity would be replaced with new nuclear reactors rather than natu-

ral gas plants.

The net effect of the two parts of the Presidents plan, for more coal and more nuclear, seems to point to a drop in future demand predicted for natural gas. The 400, or so, natural gas plants forecasted by the EIA to be built over the next 20 years would drop significantly. For the many independent gas producers in the U.S. that were hoping last winter's 7+ \$/MMBtu natural gas would become the rule, they may want to think again. In addition to Bush's bad news to independent gas producers, other non-governmental pressures like the Alaskan natural gas pipeline and the 9% annual increases in capacity for tankers carrying foreign gas the EIA foresees might also begin to pressure natural gas producers over the next 20 years.

So how did the President that so many thought would sell the U.S. to big oil find himself making decisions that may hurt them? Most likely in the interest of practicality. Bush is simply reacting to public opinion. California's problems have frightened people; this winter's natural gas bills have frightened people. Do be dispirited, Bush still holds U.S. oil and gas interests close to his heart as his dedication to ANWAR and offshore drilling attests.

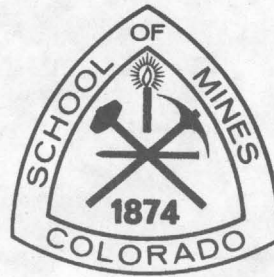
However, the irony is that Bush is putting big oil on the green side of things. Suddenly, environmentalists, who are faced with the prospect of more nuclear and coal plants, are asking what happened to those proposed natural gas plants. They may become even more upset when cheap coal keeps new natural gas fuel cell plants from being built.

Of course, the next 20 years will not be a straight line, but President Bush's new proposal is major paradigm shift. The chance that the President or a successor will overturn this new doctrine in less than a decade is high. If he continues on what many see as a rigidly, anti-green course he may push public opinion back towards expensive, but clean natural gas and away from cheap, but relatively dirty nuclear and coal.

In the short run, could it mean fewer profits for big oil and gas? No. If anything, nuclear and coal plants are medium and long-term risks to natural gas. In the short run, more gas plants are being built and gas imports capacity is low. So what about middle and long term? Possibly, but now is far

The Oredigger

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too soon to tell. Regardless of what President Bush and Vice-President Cheney propose, in a deregulated energy market, as the U.S. is becoming, what company would want the liability of nuclear waste or the worry that the coal that fires their plant will go out fashion with the next president's whim.

Whatever the outcome President Bush's decisions are showing that he is not in the pocket of big oil. It appears that his eventual plan will use non-conventional solutions to solve the country's energy problems. Some of the measures may hurt oil and gas companies' profit margins. At least one thing is apparent, Bush's plan does not seek to strip the oil companies of their profits—the plan merely seeks to give their fuels more competition. So perhaps Bush is not "for" or "against" oil and gas, just pragmatic.

Colorado Symphony Orchestra

Jason Alter

The people of Denver are very fortunate to have a wonderful orchestra like the Colorado Symphony Orchestra. They play a very broad array of music, including music from Broadway, to more traditional classical pieces. This past season they have performed everything from Mozart, and Dvorak, to Gilbert and Sullivan, and in doing so they have done an excellent job. While a fairly small orchestra, the Colorado Sym-

phony orchestra is able to attract many world famous conductors and performers. Among these are Christiane Noll, who provide the voice of Anna in the animated feature of The King and I, and Robert Spano who is the Current Music Director for the Brooklyn Philharmonic.

In the Upcoming 2001-2002 season The Colorado Symphony Orchestra will be performing many wonderful pieces. For their season opener they will be performing Beethoven's Ninth symphony. Later in the season they will be performing Handel's Messiah, as well as several holiday concerts in the month of December.

The Colorado Symphony Orchestra plays most week-ends from October to April at Boettcher Concert Hall at the Denver performing arts complex. The Boettcher Concert Hall is very nice facility with fairly good acoustics, especially towards the upper sections of the hall. Tickets are very reasonably priced ranging from \$7 to \$50 per ticket, with students getting half price tickets. Tickets can be ordered through ticketmaster, or picked up at the ticket office at the Denver Performing Arts complex. For more information on the Colorado Symphony Orchestra or for concert information go to their website, www.coloradosymphony.org.

The Colorado Symphony Orchestra is a wonderful organization, and the City of Denver is extremely fortunate to have them. A night at the symphony is a wonderful way to spend an evening and I highly recommend it for anyone that enjoys good music.

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Send mail to oredig@mines.edu, with a subject heading "Letter to the Editor." We would like to encourage our administrators, faculty and students to submit articles and comments. Call (303) 384-2188 for a distributions and submissions timeline.

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Articles featured on the editorial pages are the views of their authors. Editorials are written by the staff of the *Oredigger* and unless otherwise noted are the views of the editorials staff. Columns and letters to the editor are the viewpoint of the individual writer and are not necessarily the opinion of the *Oredigger*, its advertisers or others who may submit opinion pieces for publication. The *Oredigger* welcomes and encourages contrasting viewpoints that meet the guidelines outlined above.

The Curse of Mines

James Oltmans

Picture this, you're standing around talking with some of your buddies and you blurt out something like, "You're pretty slow, your Big O must be N⁴ or something."

```
void explain_to_nonCS_loser()
{ return bottom; }
```

/* Directs loser to bottom of article for sufficient explanation of Big O */

Or perhaps even something as simple as "Given the trajectory or that Frisbee coupled with the wind speed and material strength of plastic I'd say you hurt her pretty bad." These kinds of remarks often elicit bewildered looks from non-engineering friends /* also known as heathens */. You may also get such looks from Mines friends depending on what year you are in and how far entrenched in your major

that the group of friends happen to all go to Mines. We will also assume that the same thing happens to you and this time when you say, "It seems I lost my balance on a low friction coefficient surface." Your friends laugh and then comment about how the ball didn't have enough momentum to avoid rolling into the gutter. Never once do any of you think that what you've just said is not normal. The Curse of Mines has transcended curse status to that of either a disease or an addiction.

In case 3 we will assume that you have a non-homogenous mixture consisting of Mines friends and non-Mines friends. Once again we will assume that you have uttered, "It seems I lost my balance on a low friction coefficient sur-

logical processes which could result in a cessation of electrical impulses in your cerebrum. But it's your carbon unit; you may direct it wherever you will as long as you follow easily approximated vector paths. Another inherent risk to leaving the familiar confines of campus is more frequent encounters with a strange and mysterious race of beings known as women. These beings look like us and outnumber us off-campus. A select few have infiltrated our deepest facilities, a few even utter our battle cry, "All your base are belong to us." These creatures generally grow their head-mounted protein chains longer than we do and have an optically pleasing form, which includes a warm smile, smooth features and appendages, and various other

Random Quote from the Devil's Dictionary

http://www.boondocksnet.com/quotes/devdict_random.html

SELFISH, adj. *Devoid of consideration for the selfishness of others*

you are, you may even get those same bewildered looks from fellow classmates who have chosen other engineering paths. This is the curse of Mines, you learn to speak a language foreign to 99.23456% (± 0.003) of the population and you don't realize it until you step out into the light of reality once or twice a year. These are random happy points in the semester when all your professors somehow forget to give you any homework or you get totally apathetic and pretend to forget about it. Regardless of when this happens, you somehow find yourself having a good time with friends. What follows are a few case studies of an example good time with varying mixtures or friends.

In case 1 we will assume that the party consists of a group of friends who don't go to Mines. For an example we will assume that you and your friends have gone out to a bowling alley for the purpose of seeking entertainment. Things are going fine, you're laughing and having a good time. Then you go up to bowl when all of a sudden Weird Al's "Which Backstreet Boy is Gay" begins to play over the speakers. You start laughing hysterically as you try to bowl, then slip and fall after releasing your ball, which promptly finds its way to the gutter. While coming back you laugh, rub your hip, and exclaim, "It seems I lost my balance on a low friction coefficient surface." Your friends stop and stare at you while you feel a tad embarrassed that all your friends are morons.

In case 2 we will assume

face." Your Mines friends start laughing with you while the heathens sit and stare. You and your Mines friends suddenly become self-aware and either change your laughter to a nervous "Heh heh ahhhh..... so about that weather..." or begin the fruitless and frustrating process of converting the heathens through the sound teaching of the basic principles of physics. These and other such awkward social situations occur because of the Mines curse /* social situations are characterized by groups of carbon units gathering for the purpose of useless interaction through slow communication techniques characterized by sound propagation. In other words, chat rooms and ICQ do not count. */.

So now that we've identified the curse /* known to heathens as "being a geek" */ we must now seek out the cure. Since it's a curse we have to resort to such extreme practices as exorcising oneself from campus.

Unfortunate related side-effects of such extreme practices include exposure to UV radiation which can cause patchy skin coloration changes and basically ruin your uniform pasty white complexion. Other dangers lurk outside the confines of campus beyond the Hall of Distance. For instance, if you happen to be someone who lives on campus then you will have to be more aware when crossing petroleum derivative laced black gravel paths. Rapidly moving internal combustion motor driven monsters prowl the black paths and have been known to cause serious damage to your bio-

features that we will not discuss. Women are to be avoided at all costs save that of remaining on campus.

These are but a few risks and side effects of leaving campus however, the benefits far outweigh the dangers. Just think; outside of campus lies a whole world filled to brimming with the practical application of engineering principles. So let's take a step into this world filled with unsupervised chemical reactions, unpredictable physics, non-uniform geology, unfixable programs, markets that don't behave according to your models, and materials that don't match their specified tensile strengths /* if I forgot to mention your major's focus, I apologize */.

Once you have experienced life outside of Mines the curse shall be broken, if only for a little while. Just remember that when in Rome do as the Romans do. Listen to the local dialect and by all means don't correct their ignorance. It will take some time to adapt to their rudimentary forms of communication and utter ignorance of integrals /* which are one of the very things we wish to avoid as it is a prime indicator of the curse */. The power of the curse can be broken, I just pray I'm not too late in offering my solution.

Definition: Big O is an expression used to indicate the run-time of a program. N is the number of items being processed so by decreasing the power of N your program will run more quickly.

Letter to the Editor

Jason Alter's editorials bothered me. At first, I simply dismissed them as misunderstood conservative rants. If Mr Alter felt compelled to mislead the population here at Mines, then I was not going to interfere.

However, the series simply got worse. When he began discussing the Fifth and Sixth Amendments, I found myself unable to sit back and allow this to go on any further. Although I wish to rebuke the entire series, in the interest of space I have chosen to concentrate on the horrid fourth installment.

The first point I must raise is that the Bill of Rights only affects the Federal Government, not individual states. Alter repeatedly claims that states are violating the Bill of Rights when this is impossible. The Federal Government violates the Bill of Rights; states violate the Fourteenth Amendment. Although a small point, it is important. For simplicity's sake, however, I will refer to the same amendment Alter references, even when in error.

The next mistake Alter makes is in his story of Oliver North. He claims that North's testimony was forced, and his later conviction violated the Fifth Amendment's protection against self-incrimination. This is only half true. North was convicted, but a US Court of Appeals ruled that the conviction was unconstitutional and the previous ruling was overturned.

He then goes on to discuss the RICO laws (18 USC 96) in order to explain how they violate the Sixth Amendment clause, "nor shall private property be taken for public use without just compensation." However, that clause relates to issues of imminent domain, like when states take land for use as highways. His statement that governments "seize and auction boats, cars, buildings and other property without due process" does, however, apply to the preceding clause, "no person shall . . . be deprived of . . . property, without due process of law." RICO laws are still constitutional, of course, as they detail a series of procedures that officials must follow before seizing property (18 USC §1963(d)). Such procedures are "due process" and validate these laws.

Next Alter states that Louise Farrakan's ejection from the trial of Marion Berry violated Berry's Sixth Amendment guarantee of a public trial. However, having one fewer member in the audience does not make the trial any less public. The rest of the audience was still present, as were numerous reporters. Additionally, the court releases all documents upon the trial's completion, making the trial public even if nobody actually witnessed it.

Manual Noriega was then cited as an example in which a trial was held outside of "the State and district where the crimes shall have been committed," as the Sixth

Amendment requires. However, Alter ignores two issues in this example. First, Noriega was tried for drug trafficking. Although he was in Panama during the trial, the crime was committed in the United States. Second, Noriega is not a US citizen. As such, this is not only a Constitutional issue, but also involves foreign policy, international treaties, and other factors.

Alter also used Timothy McViegh in reference to this clause. However, the Bill of Rights detail just that rights. Nobody is forced to exercise these rights. Just as I chose not to own a gun, McViegh chose not to be tried in Oklahoma. He felt that it would be impossible to find an impartial jury in Oklahoma, and waived this right when the trial moved to Denver.

The last clause Alter attempted to show was being violated was the right of the accused "to be confronted with the witnesses against him." Perhaps the only true statement Alter makes is that anonymous witnesses violate this right. Which is true. This is why anonymous witnesses cannot testify. It is something of a misnomer to claim something that does not occur violates the Constitution. He might as well have claimed the Federal Book Burning Committee violates the freedom of speech.

He also stated that videotaped testimonies violate this clause. However, judicial review has been part of the Supreme Court's powers since the landmark *Marbury v Madison* (1803), and in *Maryland v Craig* (1990) the Court decided that videotaped testimonies can be constitutional. They must contain all the elements of an actual testimony, and courts can only use them in certain cases, but stating that all such testimonies are unconstitutional is not true.

It is impossible to deny that, at times, both State and Federal governments have overstepped their bounds. However, these occurrences are both rare and quickly remedied. Groups like the ACLU bring unconstitutional laws into the public eye often before Congress passes them. For this reason, the Constitution has remained intact for the two hundred thirteen years it has existed, regardless of what Mr Alter would have people believe.

Resources:

The complete text of the Constitution with all twenty-one amendments can be found at <http://www.nara.gov/exhall/charters/charters.html>

Various Supreme Court decisions can be read at <http://supct.law.cornell.edu/supct/>

The United States Code can be searched at <http://www4.law.cornell.edu/uscode/> also <http://uscode.house.gov/download.htm>

Dennis Zickefoose

Letter to the Editor

First, we would like to commend the organizers of the Kary Mullis lecture.

These are the kind of intellectually stimulating events that Mines needs more of. Mullis's presentation was not merely a lecture about his Nobel Laureate achievements; he opened up to the audience sharing experiences of his childhood, youth, and life, occasionally adding his sometimes controversial views on life, religion, drugs, philosophy, and politics.

We were quite disturbed by the occurrence at the finale of the presentation. For those of you who weren't there, the first individual to ask a question inquired if he could approach the

stage and, before anyone knew what was happening, he was leaning on the podium in a rather hostile manner questioning Mullis's stance on philosophy. Without waiting for a response, this individual continued to badger Mullis, pointing to some statement made about ethics in one of his books. Fortunately, before the situation became really distasteful the individual was asked to leave the stage.

Stunned by this outburst, we felt a sense of embarrassment by the actions of this person. This was neither the time nor place to go a crusade, and was utterly rude. Behavior of this kind reflects poorly on the Mines community and perpetuates stereo-

types of narrow-mindedness and intolerance.

If Mines is so lucky to attract other prestigious guests, we hope a similar incident will not occur and tact and diplomacy will prevail. People need to understand that everyone is entitled to their opinions and values. Whether these beliefs are published in a book, verbalized in a conversation among friends or at a weekly sermon, or written on picket signs, whether you agree or disagree, you must be accepting of peoples differences and not let their opinions rattle your beliefs.

**Suzanne Smerjac
Hunter Swenson**

A BIG THANK YOU!

ARAMARK Campus Dining would like to thank all the students, faculty and staff who participated in our focus groups and interviews March 27th and 28th. Your input was very much appreciated!

Golden Vision Clinic, P.C.

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Letter to the Editor

The series of articles "The Desecration of the Constitution" were never intended to argue the legality, of the laws that were mentioned. The violations of the Bill of Rights that are brought up were intended to point out that the US supreme court is overstepping their bound by deeming something Constitutional, or unconstitutional, based not on what the meaning of the amendment in question is, but what they felt

was right without any regard for what the Constitution said or what the Founding Fathers had intended. The Supreme Court has the power to rule anything unconstitutional, even if the language in the Constitution blatantly says otherwise. For example, hypothetically speaking; if Al Gore had been elected and allowed to make his expected appointments to the Supreme Court, the Supreme court could have chosen to revoke the right

of the people to own firearms, a blatant violation of the second and ninth amendments.

The response from Dennis Zickefoose states that the States are permitted to violate the Bill of rights. This is incorrect, if the states can violate the Bill of Rights then the Bill of Rights serve absolutely no purpose. The Constitution and its amendments are valid nationwide, however most of the Constitution applies to how the federal

government is formed and ran. The rights discussed in the Bill of rights are inalienable rights that everyone is entitled to, that is why the Founding Fathers put them in there, to insure that they will not be infringed upon.

As far as the comments on the ejection of Louis Farrakan from Marion Berry's trial, no valid reason was given for his ejection, and doing so set a bad precedent, where does one draw the line on such matters. In the case of

Manual Noriega, Zickefoose states that because Noriega is not a US citizen he has no constitutional rights, this is not true because the rights proclaimed in the constitution are still universal rights that everyone is entitled too. Everyone has a right to a fair trial, even people that are not citizens of the United States, that does not mean that they always get one, but they still have a right to one.

Jason Alter

CSM Bookstore

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Mines Tennis

Reece Bollinger

The men's tennis team is currently 9-5 overall and 3-0 in RMAC competition. They are on a three-match win streak last pounding Colorado College 9-0.

In the match versus Colorado College, David Rademacher (10-5) worked Troy Rahner at the #1 singles 6-0, 6-1. Kevin Yu (8-5) beat Sandy Pope at the #2 singles 6-1, 6-2. Brian Buck (10-4) defeated Brad Miller 6-3, 6-0 at the #3 singles.

Matt Rychlik (11-3) pounded

Adam Reeder 6-2, 6-1 at the #4 singles. Pat Calvert (7-6) smoked Luke Galli at the #5 singles 6-1, 6-2. And John Swanson (1-2) defeated Brian Hurlbutt at the #6 singles 6-1, 6-0.

Rademacher and Yu teamed up to beat Pope and Miller at the #1 doubles 8-5. Rychlik and Buck smoked Rahner and Galli in the #2 doubles match 8-1.

Finally, Calvert and Mark Chung defeated Louie Iuppa and Hurlbutt in the #3 doubles 8-5.

The rest of the tennis schedule is as follows:

TBA CU-Boulder Scrimmage
April 20-22 RMAC Championships @ Grand Junction

None of the remaining matches will be played at home.

Senior Banquet

*the CSM Alumni Association
invites you to be our guest*

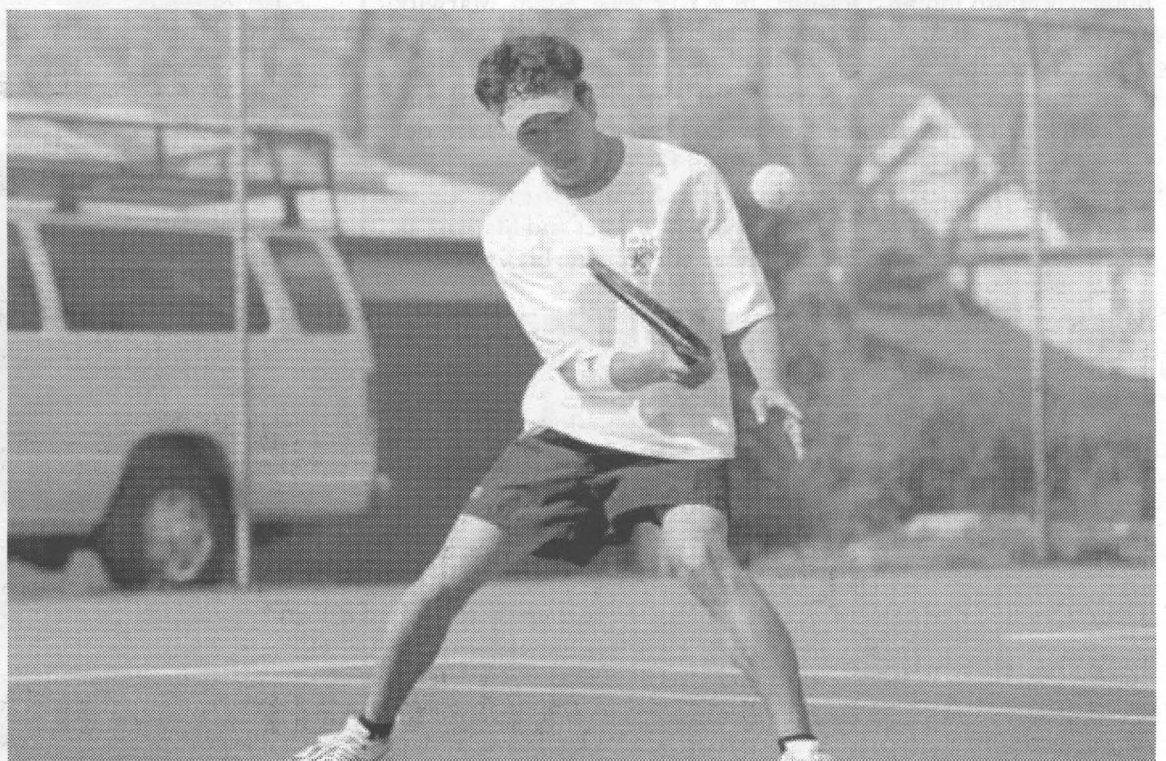
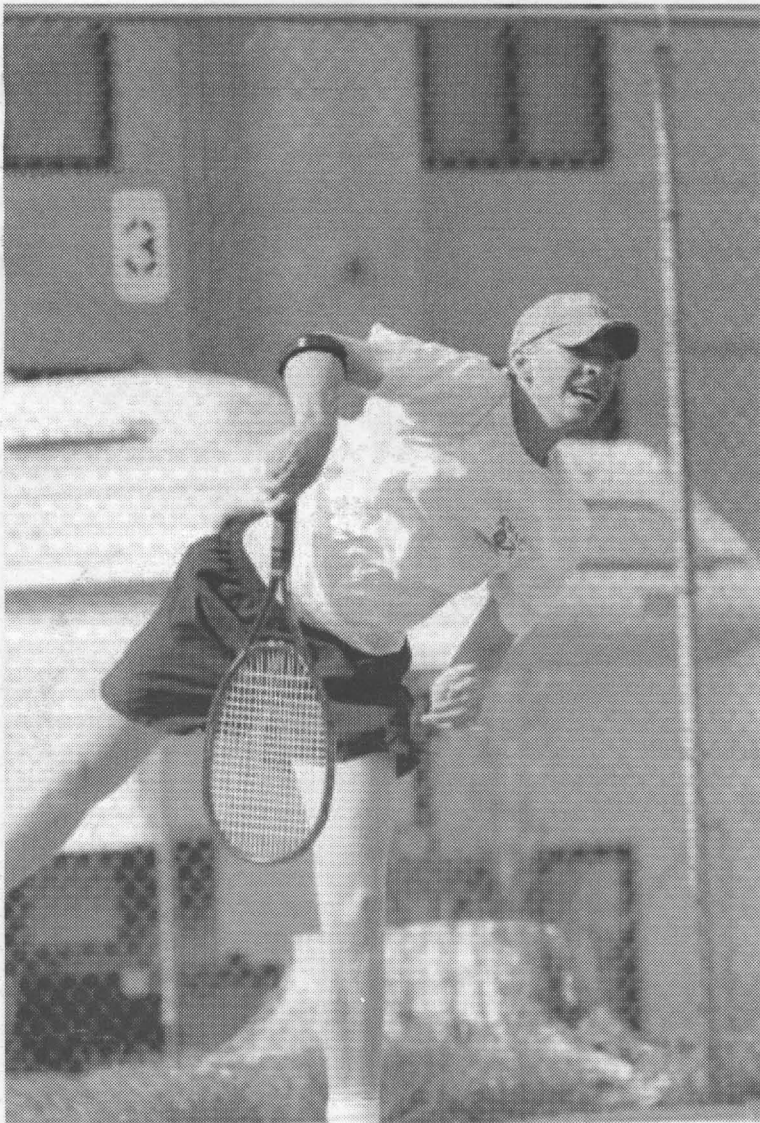
Thursday, May 3, 2001
6 P.M. Social Hour • 7 P.M. Dinner
Freidhoff Hall, Green Center
Guest Ticket: \$20

RSVP by Monday, April 30th
303-273-3295 or 303-273-3290

Mines Athletics

Upcomming Matches

4-21: Baseball, 12 pm, double header, vs Southern Colorado
4-21: Softball, 12pm, double header, vs Nebraska Kearney
4-22: Baseball, 12 pm, double header, vs Southern Colorado
4-22: Softball, 12 pm, double header, vs Nevraska Kearney



Hey Athletes!

The Oredigger will publish an issue this summer and we want your picture to be in it! So go out in the sun, be active, and send us your pictures at oredig@mines.edu!!!

Have a great summer!

Mines' Ultimate Frisbee Team is Flying High

Stephanie Onorofskie

Recently, the CSM Ultimate Frisbee team, Entropy, was ranked 30th out of 186 schools in the nation according to the Ultimate Players Association (UPA). Their rise in the rankings can largely be attributed to winning two tournaments in the past month. Entropy won the Rocky Mountain Invitational in Fort Collins, which was held March 24th and 25th. The weekend immediately following, they won the Fool's Fest tournament in Lawrence, Kansas.

The ultimate frisbee team has made quite a name for themselves and for CSM these past three years. Being a young club team, they have grown from learning the rules and fancy throws to being ranked 30th in the nation. For a school of our size, it is very impressive to be a nationally ranked sports club team. Congratulations!

Not only are they ranked highly, but they also have a very impressive record. They are 18-6 this season. They have also competed in tournaments in San Diego, CA and Gainesville, FL. "Not only is this team one of

the most dedicated and hard working teams on campus, but they are the biggest partiers too. They know when to flip the switch between taking care of business and having a great time" says co-captain Jeff Berget about the team. "It's exciting to see the growth this team has had in the past couple of years. We pick up new and skilled players each year, including an awesome coach, and have built a national caliber team from pure commitment and love for the game" said Co-Captain, Eric Huelson.

The UFT is one of the larger teams in Sports Clubs with 25 active people. When asked why he plays for Entropy, Hunter Swenson said, "It is a good escape from the daily mundane tasks at Mines. It is a release for me. Ultimate keeps me in great shape because the game requires a lot of running. And besides, the ladies love it!"

Entropy is also very active as a team in the Mines community. Several of the players help coordinate the IM Ultimate games in the fall in which 75 students participate. They also recently

hosted an E-Days hat tournament that was a big success, despite the snowy weather, with 70 participants. Hosting these activities helps educate the Mines community about the game and to bring new players to the field.

If you would like more information about the Ultimate Frisbee team or ultimate in general, please visit the Mines website at http://www.mines.edu/Stu_life/organ/ufo/main/index.html or the UPA website at <http://www.upa.org>.



Mines Ultimate Team at San Diego Tournament

Mines Baseball

Karen Martin

Last weekend the Oredigger baseball team matched up against the Metro State College Roadrunners in a Mines four-game home stand. In the first of four games, the Diggers were defeated by a score of 10-8. Mines had 11 hits to Metro's 14 in the game.

Center-fielder, Terry Packer went 2-2 from the plate with two singles. Catcher, Jeff Doland added two more hits, and went 2-3 in the game. Zane Kuenzler and Ryan Phillips both contributed two more hits, each hit 2-4 in game one of the day.

Doland and Phillips both homered in 4th inning. Doland and Phillips led the team in RBIs with three each.

In the second game on Saturday, the Roadrunners beat the Orediggers 10-9 in another close game. The Miners ended the game with ten hits and Metro finished with 11 for the game.

Mines had three errors and the Runners had two. Phillips went 3-4 from the plate, had two RBIs and scored a run.

Packer ended up 2-3 from the plate, with a double and a triple, and scored two runs in the game. Mike Cerbo also went 2-3 from the plate to add to the Digger hits column. Ross Tobin led the team in RBIs with three.

In the first game on Sunday, the Diggers beat the Runners 4-3. Mines had seven hits, while Metro finished with four. Ryan Kamada batting 3-2 and scored two runs. Tobin also batted 3-2 in the game. Leading the team in RBIs was Adam Marwitz with two. Marwitz also homered in the game.

In the final game of the weekend the Diggers were defeated 13-3. Metro had nine hits to the Miners three. Chad Herbers, Packer and Marwitz all finished with one hit a piece.

Check out the ORC in April and May!

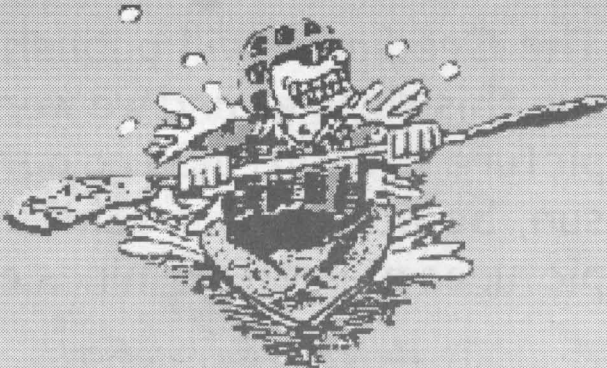


- 19 *sign up deadline for Rock II (4/29), \$20
- *sign up for Friday Rollerblade clinic, \$20
- 19 *Rollerblade Clinic, ORC, 3:45pm
- 21 *Rock I, 7am
- 22 *Wildflower Walk, Mines Park, 9:30am
- *Rock II, 7am
- 25 *bike tuning clinic, ORC, 5:30, \$5
- 26 *sign up for Friday Rollerblade clinic, \$20
- 27 *Adventure Race, 10am
- *Rollerblade Clinic, ORC, #:45pm
- 27 *Rock I, 7am
- 28 *Rock II, 7am
- 2 *sign up deadline for full Moon Hike, \$5
- *bike tuning clinic, ORC, 5:30, \$5
- 7 *Full Moon hike - South Table Mountain via the "Stairmaster Route", 7pm

Ice Breaker Race

The spring ice breaker race (April 21 and 22) is the third annual kayak race put on by the CSM Kayak club for teams across the country. For more info on the citizens race please email abrinson@mines.edu

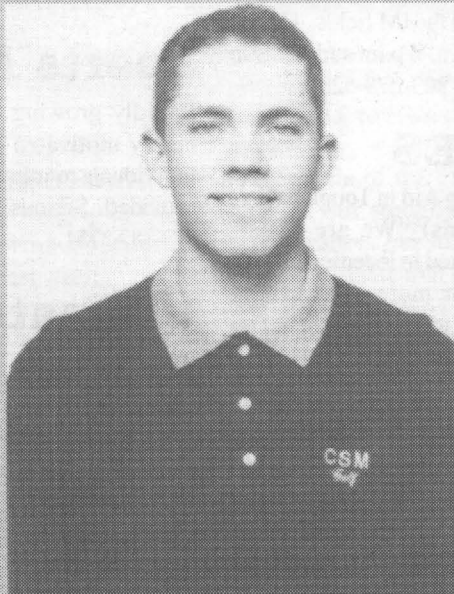
See ya there!



Orediggers of the Week

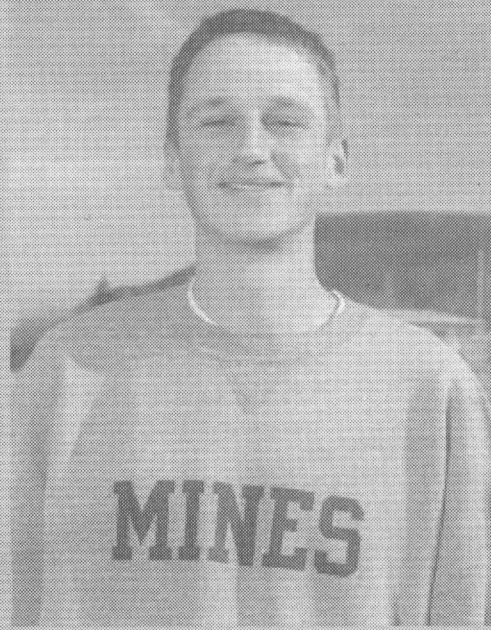
Colorado School of Mines outdoor track runner **Martin Weiss** and CSM golfer **Marty Jertsen** are the co-Orediggers of the Week for the period ending April 12, 2001.

Weiss, a freshman from Suhl, Germany, ran a 3:54.03 for a first place finish and national qualifying time in the 1500 meter run at the Tom Benich Classic April 7 at UNC. His altitude adjusted time converts to 3:49.48, which currently ranks him #7 in the



nation. **Weiss** was the cross country Rocky Mountain Athletic Conference Newcomer of the Year in 2000.

Jertsen, a junior from Phoenix, Ariz., shot a total score of 148 to tie for second place at the Bear Spring Invitational at Pelican Lakes and Highland Hills in Greeley. Tyler Weaver of Northern Colorado finished in first place with a score of 147. **Jertsen** shot five over par overall, scoring 75 on the first day and 73 on the second.



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Miner Notes

Alpha Phi Omega

CSM's coed service fraternity meets Mondays in Meyer Hall 357 at 8 p.m. For information on how to pledge (even if you haven't attended any rush events) contact Adam Berig at aberig@mines.edu.

ASM/TMS

ASM/TMS has always had a strong presence on campus. Nevertheless, last semester, MT department head, Dr. J.J. Moore, combined all related materials societies into one called Materials Science and Engineering Club (MSEC). This included ISS, ACerS, AWS, and ASM/TMS. We welcome members from all departments. Email yhuang@mines.edu.

ATO Sober Drivers

Did somebody take your keys? Then call the ATO sober driver hotline. Just be in the golden area and leave us a number to reach you at. We will be right over to pick you up. Call 303-207-2200 and leave us your number.

Ballroom Dance Club

Thursdays, 8:30-10 p.m. in the Student Center, Ballroom C. Practice sessions start at 7 p.m. before each lesson. \$18 semester dues, \$4 for drop-ins.

Board of Publications

If you have complaints regarding any of the publications at Mines, please feel free to contact a member of the Board of Publications. You can email the chair at clanderson@mines.edu or the ASCSM representative Kip Findley at kfindley@mines.edu.

Bridge Club

If you like to play cards and want something more interesting than hearts or spades, why not try bridge? The CSM Bridge Club meets Wednesdays at 6 p.m. in the Coolbaugh atrium. Players of all skill levels are welcome.

Campus Crusade for Christ

All are welcome to join us for our weekly meetings Thursdays at 8 p.m. in Hill Hall 204. It is a place to fellowship with friends and grow in your walk with God. For more information, please e-mail jvigil@mines.edu.

CSM College Republicans

Are you interested in becoming involved in political issues? Political awareness is a necessity for the future business leaders at CSM. If you are interested please contact jstolte@mines.edu

Earthworks

Are you interested in becoming involved in environmental issues at CSM? If so, Earthworks is for you. Come check out the meetings or email: earthworks@mines.edu. All are welcome!

FCA

The Fellowship of Christian Athletes meets Wednesdays at 7:30 p.m. in the projection room on the second floor of Volk Gymnasium. All are welcome: Christians, athletes, both or neither. For more information email fbuckner@mines.edu.

International Student Organization

The International Student Organization represents the interests of all internationals at CSM. Informal meetings are held at the International Office (1404 Maple Street) as needed. We welcome ideas on activities to further improve the experience of the international students and the Mines community at large. Contact Leslie 303-273-3210 or Kenny 303-215-0449

Kayak Club

Kayak Club holds pool sessions Mondays from 7:30-9:30 p.m. Everyone is welcome, beginners to advanced. Contact Nicole Baert at (303) 273-0507 or email nbaert@mines.edu.

Kendo Club

Traditional Japanese sword fighting new time and place!! Tuesdays at 7 to 9 p.m. in the lower gym in the field house. New students and spectators welcome anytime. For more information call Sensei King at 303-795-9040 or email at fourrex@aol.com.

LDSSA

All students are invited to enjoy a guest speaker and lunch for \$1 at the Latter Day Saints Student Association's Friday Forum, Fridays at noon at 1212 Arapahoe Street. For more information e-mail napeters@mines.edu.

Masters Swimming

All levels and interests are welcome Coach and lifeguard provided Cheap: Only \$35/semester. Times: Mon-Thu: 5:45-7p.m., Tue/Thu: 7:30-8:30 a.m., and Sat: 1-3p.m.

Newman Group

The CSM Catholic Newman Group meets Tuesdays at 8:30 p.m. in the Ted Adams room of the Green Center. Everyone, regardless of beliefs or affiliation, is welcome and encouraged to attend. For more information email tnorick@mines.edu. See you Tuesday!!!

Outdoor Rec Center

Looking for a little recreation? Need equipment? Need lessons? Visit the Outdoor Recreation Center across the street from the IM fields. Hours: Mon-Fri 10 a.m.-6 p.m. and Sat-Sun 10 a.m.-2 p.m. 303-278-6202

PHATES

(Peers Helping Aid in Tough Everyday Situations) "We are listening..." Dedicated to listening to your problems. For more information, contact Mel Kirk at the Student Development Center, 303-273-3377.

Prospector

The Prospector Yearbook is in search of an editor! Applications are available in the Student Activities office. This is a wonderful opportunity to gain journalistic experience and to support CSM in a unique and rewarding way.

Robotics Club

Students from any and every major are welcome to participate in the CSM Robotics Club. We build robots for competitions, including a robot for the SAE Walking Machine Challenge and one for the Battle Bots competition. Meetings on Wednesday, noon in Berthoud 204. More info: cgoerzen@mines.edu

SCA

The Society for Creative Anachronism meets Thursdays 7-9 p.m. in the Field House. Questions? Contact David at (303) 278-3061 or dclement@mines.edu.

SEB

Society of Economics and Business (SEB) barbeque April 20 11:30-1 outside of Engineering Hall. All SEB members and related faculty are invited

Senior M-Climb

Senior M-Climb is Thursday, May 3. Participate in one of Mines oldest traditions, and take home your piece of the "M." Transportation will leave from the IM lot at noon, or meet at the "M" by 12:30. Remember your hard hat for the paint throwing!

Sigma Lambda

Sigma Lambda is the student organization for the gay, lesbian, bisexual, and transgendered community at CSM. We welcome students, faculty, staff, and alumni to our meetings and social events. For more information, visit our web page at http://www.mines.edu/Stu_life/organ/glbe/ or email sigmalambda@mines.edu.

Sober Drivers

Need a ride home on Friday or Saturday night between 9 p.m. and 3 a.m.? Call Kappa Sigma Sober Driver Program at (303)-279-9951. You must be within 15 minutes of campus.

Sports Nut?

Rapidly growing company seeking highly motivated and goal-oriented individuals to join our team. Training provided. Serious inquiries only. 1-877-387-3754

Ultimate Frisbee Organization

Mines Ultimate practices Tuesdays, Thursdays and Fridays at 5 p.m. on Kafadar field. This is a competitive team that travels to different areas around the state and country to compete in tournaments. If interested, view our website at http://www.mines.edu/Stu_life/organ/ufo/ and contact any of the officers for more information.

Water Polo

Mines water polo is off to an exciting start. Practices are Tuesdays and Thursdays from 7:45-9:45 p.m. and Saturday from 1-3 p.m. This is a coed team so please feel free to join us in Volk gym pool.

Women's Tennis Team

Practices are starting and new members are welcome; no experience necessary. If you would like more information, please contact Olivia Harren at oharren@mines.edu

Women's Ultimate Frisbee Team

Want to have fun, make friends and get in shape? Come be a part of Mines' Women's Ultimate Frisbee Team. No experience is required. Practice is on Kafadar Commons from 4-6 p.m., Tuesdays and Thursdays. For more information, call Julie West at 303-278-7431.

Women's Water Polo

Mines finally has a women's water polo team. Our season is about to get underway. If you would like to join us for fun, exercise, or competition, we practice in the school pool on Monday and Wednesday nights from 7-9 p.m., and Saturday from 11 a.m.-1 p.m.. All experience levels are encouraged to come be a part of this fun sport.

Classified Advertisements Help Wanted.

Buddhist Mines student? A non-practicing student is searching for mindful friends. Know of any? infinity@spacehippy.net

Child care needed for infant, beginning July 18th, 7:30 a.m.-5:30 p.m., Thursdays and Fridays. Your Golden location. Call Jennifer at x3899 or 303-403-4446.

Female quadriplegic (46) seeks students for home health care. Duties include assisting with personal hygiene, bathing, dressing, etc. Some lifting required. No experience necessary, will train. Part-time morning or evening hours available. Morrison area. \$7.50-\$10/hour. Please call Cheryl @ 303-697-6725.

FREE super single waterbed with underdresser (6 drawers). Mattress and heater included- good condition. Call 303-215-9421.

Housesitter for two rowdy dogs and one placid cat. One week in June and/or other miscellaneous dates \$20/day Call Virginia Dennis for more info: 303-237-1448

Jeffco YMCA part time nursery caregivers needed. Hours 7:45 a.m.-1 p.m. & 4:30 p.m.-7 p.m. M-F/ 8:15 a.m.-1 p.m. Sat. Membership benefits. Apply at 11050 20th Ave., Lakewood or Call 303-233-8877 and ask for Shelia or Tristen

Lost Spyderco knife. If found, call 303-384-2188. Reward offered.

Nannies, Childcare. Professional care for children wanted (303) 499-2002 or (303) 471-0704

Outdoor groundskeeper. Part time: 8-15 hours per week. Hours and days are flexible. \$9/hr Call Scott (303) 271-0644 or (303) 929-7444.

Part-time child care (7-10 hours a week, perhaps more) needed for 14 month old son beginning ASAP. Hours/days are flexible; location is in Golden; pay is competitive. Call Tracy for more info.: 303/384-0489.

Pepsi-Cola: Part-time merchandiser position \$10/hr, no overtime, bonus after 6 mos, mileage at set route rate, Thurs.-Mon. 4-8 p.m., min. 18 yrs. old, valid driver's license, proof of insurance, able to lift 40-50 lbs, good communication skills essential to maintain and build customer relations at store level. Inquire in person Wed. 6 p.m., or Thurs. 9 a.m. or 6 p.m., 3801 Brighton Blvd., Denver, CO 80216

Small technology mgmt consulting firm in downtown Golden seeks student for part-time admin. and technical marketing support. Approx. 20 hr/week, flexible. Computer & internet skills, good writing and interpersonal skills required. HTML and web development a plus. Contact Rich at 303.279.2271. Fax resume to 303.279.2282 or email info@temi.com.